

SMOKE SIGNALS

For Radio Amateurs • By Radio Amateurs

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"Wallpaper" for Sherm Carr, W9NGT



Sherman C. Carr, W9NGT, had been promising for more than a couple of years to come to Baraboo for a cup of coffee with the BSSS editor and whomever else might join us. He made it to the Circus City late last summer, and he got more than coffee. Sherm provided all the right technical advice to get the HF antenna on the Great Circus Train to work properly. In recognition of his time and effort, he was presented a certificate at a gathering at the home of Don Evenson, K9JYX, Baraboo. From left to right are Bob King, KA9GNY; your editor; Sherm Carr, W9NGT; George Halper, W9SUF; and "Rip" Ripple, W9SIZ. K9JYX designed the certificate, and he took this picture.

It's Time to Party!

Coming soon to a ham radio band near you.. the 1996 Wisconsin QSO Party! The big event is Sunday, March 10, 1996, from noon to 7 p.m. CST. Sponsored every year by the West Allis Radio Amateur Club, the 7-hour sprint is open to radio amateurs of all license grades and provides a lot of fun for both serious contesters and casual operators alike. The WQP is nationally known for its high level of participation. Set some time aside and enjoy! See page 7 of this issue. Lynn Tamblin, K9KR, WQP Chairman, has a few last-minute details and more information on the fun just waiting for you!

PRB-1 Ready for Introduction in Legislature

PRB-1 has moved a step closer to codification as Wisconsin law. The bills have, following a co-sponsorship period, been given numbers for introduction on the floors of the Assembly and Senate. Here is information received February 13, 1996 from the office of the Assembly sponsor of the bill, Rep. Ben Brancel:

Rep. Ben Brancel (R-Endeavor) and Sen. Richard Grobschmidt (D-Milwaukee) have introduced legislation today (Feb. 12) to codify PRB-1 as Wisconsin law. The numbers on these companion bills are Assembly Bill 900 and Senate Bill 544.

A letter requesting co-sponsors to the bill was circulated and produced several co-sponsors including Representatives Albers (R-North Freedom), Jensen (R-Mukwanago), Turner (D-Racine), Hasenohrl (D-city not given) and Brandemuehl (R-Fennimore).

The next floor period begins in March and lasts for four weeks. Also, there is a two week floor period in May.

In order for bills to become law this session, action in both houses will need to be finished by the end of the May floor period.

Radio Amateurs favoring this legislation should contact their State Representative and Senator to encourage them to support these bills.



Sen. Richard Grobschmidt



Rep. Ben Brancel

Dane County ARES Helps Red Cross at Major Fire

The Dane County Amateur Radio Emergency Service (ARES) was activated on Sunday, February 18, in support of the Dane County Chapter of the American Red Cross. The Red Cross requested Amateur Radio operator support because of the fire that destroyed the Hotel Washington in downtown Madison.

The Dane County ARES provided radio operators and their equipment at the Red Cross Headquarters ham shack, the Wisconsin Division of Emergency Government ham shack, the Red Cross Forward Command Post, the Mental Health Center, the mobile Mass Care Vehicle, and "shadows" for key Red Cross personnel.

The Dane County ARES was activated using their telephone "tree" and local Amateur Radio repeaters. Fourteen volunteers responded to fill all the required positions and provide relief personnel thru out the activation.

- Mack Brophy; N9NTB

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EDITED BY KENNETH A. EBNETER, K9EN, 822 WAUONA TRAIL, PORTAGE, WI 53901

Swapfests and Other Social Events

SUNDAY, MARCH 10, 1996. SEWFARS Swapfest. Waukesha County Expo Center, Waukesha, WI. Contact: SEWFARS PO Box 102, Delafield, WI 53018. (414) 789-1034.

SUNDAY, MARCH 17, 1996. HAMFEST 1996. Jefferson County Fairgrounds, Jefferson, WI. Contact: Tri County ARC, 213 Frederick ST., Fort Atkinson, WI 53538. (414) 563-6381 (evenings).

SUNDAY, MARCH 31, 1996. LAMARSFEST. Lake County Fairgrounds, Grayslake, IL.

SUNDAY, APRIL 14, 1996. Madison Swapfest, sponsored by MARA. Dane County Expo Center, Madison, WI. Contact MARA, P.O. Box 8890, Madison, WI. 53708-8890. (608) 245-8890.

SATURDAY, MAY 4, 1996. 18th Annual Cedarburg Swapfest. 8:00 a.m. to 1:00 p.m., at the Circle-B Recreation Center, Highway 60 and County I (20 miles North of Milwaukee, West of Grafton). Contact: Ozaukee Radio Club Swapfest Chairman, W58 N985 Essex Drive, Cedarburg WI 53012-1439. Telephone (414) 377-2784 or (414) 284-3271.

SATURDAY, MAY 11, 1996. Lakeshore Hamfest and Computer Swapfest, sponsored by the ManCorad Club. Held at the Manitowoc County Expo, intersection of Hwys 42/151 and I-43 on Cty Hwy R. ARRL VEC Exams will be held at Silver Lake College, nearby, and DXCC OSE Field Checking will be available by the Northeast Wisconsin DX Assn. Contact Glenn, AA9MT (414) 684-7096 or Red, N9GHE. (414) 684-9097 (nights) or write to ManCoRad, P.O. Box 204, Manitowoc, WI 54221-0204.

SUNDAY, MAY 12, 1996. Kankakee Area Radio Society Hamfest 96. Will County Fairgrounds, Peotone, IL.

SUNDAY, JUNE 1, 1996. Adams County ARC Spring Hamfest, Friendship, WI. Contact: Adams County ARC, PO Box 232, Friendship, WI. Phone (608) 564-7887. Packet N9TD-1 on 145.03.

See also the back page and flyer ads for additional information on many of these events.

SUNDAY, JUNE 2, 1996. Princeton Hamfest/Computer Show. Bureau County Fairgrounds in Princeton, IL. Sponsored by the Starved Rock Radio Club.

SUNDAY, JUNE 9, 1996. CWRA Swapfest, University Center, U.W. Stevens Point, WI. Contact: John Kalina, KA9DJA, 1240 North Point Dr., Stevens Point, WI 54481. (715) 344-1407.

SUNDAY, JUNE 9, 1996. Cook County Hamfest at Santa Fee Park, 91st and Wolf Road, McHenry County Fairgrounds, Woodstock, IL.

SATURDAY, JULY 13, 1996. South Milwaukee Amateur Radio Club Swapfest, Legion Post, Oak Creek, WI.

SATURDAY, JULY 27, 1996. Eau Claire ARC Swapfest. Eau Claire County Fairgrounds, intersection of Highways 93 and I-94, Eau Claire, WI. Contact: Carol Ceraso, (717) 723-9205 or Liz Searing, (715) 834-1303. P.O. Box 1867, Eau Claire, WI 54701.

SUNDAY, JULY 28, 1996. RACINE HAMFEST 96. South Hill Country Club I-94, East Frontage Road between Highways 20 and K. Contact: RMC, P.O. Box 3, Racine, WI 53401.

SUNDAY, AUGUST 4, 1996. The Marshfield Area Amateur Radio Society will be holding their 5th annual picnic. Gather around 11:00 a.m. Potluck. Swapfest. In Wildwood Park, Marshfield, WI. Talk in on 147.180. All welcome. Contact: Guy A. Boucher, KF9XX, 107 West Third St., Marshfield, WI 54449. (715) 384-4323. Packet:KF9XX @ W9IHW.WI.USA.NA. SATURDAY, AUGUST 24, 1996. Hamfest & Computer Expo, Omni Center, Onalaska, WI. Contact: Dick Low, KOJYB, 1520 Namomis Ave., La Crosse, WI 54603. (608) 784-9176.

SEPTEMBER 13, 14, 15, 1996. ARRL National

Convention at Superfest 96, Peoria Civic Center, Peoria IL. For exhibition information contact: R & B Productions, 7150 University ST., Peoria, IL 61614 (309) 693-9667. Fax: (309) 693-3463. For general information contact: Ron Morgan, KB9NW. General Chairman, (309) 692-FEST. E-Mail: Superfest @ AOL.com.

SUNDAY, OCTOBER 13, 1996. Kettle Moraine Radio Amateurs 1966 Computer Fair and Hamfest. Waukesha County Exposition Center in the Forum Building, Highways J and FT in Waukesha, WI. Contact KMRA Swapfest, PO Box 411, Waukesha, WI 53187-0411. Or call Ron at (414) 547-2219 or Andy at 549-0393.

SUNDAY, NOVEMBER 3, 1996. Fox Cities Hamfest, Starlite Club, Hwy 55, North of Kaukana, WI. Contact: Chad Pennings, N9PRC, 318 E. Brewster ST., Appleton, WI 54911. (414) 954-1229.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas. Send information on your event to Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.

Club Meetings



Due to space limitations, we cannot always carry the full listing of Wisconsin and area club meetings. Please see the

November 1995 meetings column for the latest complete listing. The following are additions or changes since that listing.

FALLS AMATEUR RADIO CLUB, INC

The Falls Amateur Radio Club, Inc. meets the last Wednesday of the month at the Bank One building in Germantown, WI at Pilgrim and Mequon Roads. The doors open at 7:00 p.m. and the meeting will begin at 7:30 p.m. !!GUESTS ARE WELCOME!!

YELLOW THUNDER AMATEUR RADIO CLUB (BARABOO)

Days rotate: The meeting dates for 1996 are Mar 14, Apr 16, May 15, Jun 13, Jul 16, Aug 14, Sep 12, Oct 15, Nov 13, with the Holiday party scheduled for Friday December 13, 1996. All meetings will be at the Baraboo Civic Center, room 14, unless otherwise noted. Starting time for the monthly club meeting is 7:30 p.m.. The program start time after the meeting is 8:00 p.m., with a one hour limit.

The Test Point



Amateur Radio Examination Locations
and Schedules in the Wisconsin Area

March 02, 1996 Oak Creek, WI (SWAT/MRAC)
March 09, 1996 Redgranite, WI
March 09, 1996 Madison, WI
March 09, 1996 Pewaukee, WI
March 16, 1996 Loves Park, IL
March 16, 1996 Milwaukee, WI (BADGER)
March 20, 1996 West Allis, WI (MRAC)
March 23, 1996 Menomonie, WI
March 23, 1996 Appleton, WI
March 30, 1996 Tomahawk, WI

Badger State Smoke Signals

Amateur Radio Education and Information

CHAIRMAN: Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901. Telephone (608) 742-3560.

EDITOR: Jim Romelfanger, K9ZZ, 412 1/2 Ash Street, Baraboo, WI 53913. Telephone (608) 356-4031.

TREASURER: Jim Decker, WB9UQT, P.O. Box 337, Baraboo, WI 53913-0337.

CONTRIBUTING AUTHOR: Richard R. Regent, K9GDF, 5003 South 26th Street, Milwaukee, WI 53221.

Subscriptions

1 year	(12 issues)	\$12.00
2 years	(24 issues - save \$2.00)	\$22.00
3 years	(36 issues - save \$4.00)	\$32.00

Special club package reduced rates are available. For information, contact Ken Ebner, K9EN.

When to Send It

The closing date for each issue is the first of the month for the next month's issue. For example, the closing date for the June issue is May 1.

The only exception is for participating clubs. Participating clubs are requested to send their material no later than FIVE DAYS after the club's meeting. For example, if a club meets on the 4th of the month, the material should be sent no later than the 9th of that

month. This material is to be sent to the Editor.

Where to Send It

Address changes and corrections should be sent to Ken Ebner.

Editorial material, photographs, feature articles, display ads, and exchange papers should be sent to Jim Romelfanger.

Inquiries about advertising should be directed to Ken Ebner.

Club, swapfest, and Test Point information should be sent to Ken Ebner.

Swapfest ads should be sent to Jim Romelfanger.

Subscriptions should be sent, with check or money order, to Jim Decker.

Conditions for Reprinting or BBS Posting Material from Badger State Smoke Signals

Permission is hereby granted to reprint articles or posting articles on radio or telephone bulletin boards from *Badger State Smoke Signals*, providing credit is given to the original author, publication in which the article first appeared, and to *Badger State Smoke Signals*. THIS CREDIT IS MANDATORY, AND NO MATERIAL MAY BE PRINTED OR POSTED UNLESS IT IS GIVEN. This newspaper is produced by volunteer Radio Amateurs, and is non-profit. This newspaper is mailed from Portage, WI 53901. *Badger State Smoke Signals* is incorporated as a Wisconsin non-stock, non-profit organization.

Editorial Disclaimer

The opinions expressed in editorials, guest editorials, columns, articles, and letters from readers are the opinions of the authors only, and do not, unless otherwise stated, express or imply endorsement by *Badger State Smoke Signals*, or by any other individual or organization.

March 30, 1996 Wauwatosa, WI (MRAC)
 April 06, 1996 Racine, WI
 April 08, 1996 Oak Creek, WI (SWAT/MRAC)
 April 13, 1996 Pewaukee, WI
 April 13, 1996 Madison, WI
 April 13, 1996 Fond du Lac, WI
 April 13, 1996 Green Bay, WI
 April 13, 1996 Marshfield, WI
 April 18, 1996 West Allis, WI (MRAC)
 April 20, 1996 Milwaukee, WI (BADGER)
 April 20, 1996 Loves Park, IL
 April 27, 1996 Wauwatosa, WI (MRAC)
 April 27, 1996 Tomahawk, WI
 May 04, 1996 Pewaukee, WI
 May 04, 1996 Racine, WI
 May 04, 1996 Milwaukee, WI (BADGER)

Ozaukee Swapfest

May 11, 1996 Manitowoc, WI

Lakeshore Hamfest

May 11, 1996 Madison, WI
 May 16, 1996 West Allis, WI (MRAC)
 May 18, 1996 Loves Park, IL
 May 25, 1996 Wauwatosa, WI (MRAC)
 May 25, 1996 Tomahawk, WI
 June 01, 1996 Pewaukee, WI
 June 01, 1996 Racine, WI
 June 08, 1996 Madison, WI
 June 15, 1996 Appleton, WI
 June 15, 1996 Loves Park, IL
 June 20, 1996 West Allis, WI (MRAC)
 June 29, 1996 Wauwatosa, WI (MRAC)
 June 29, 1996 Tomahawk, WI
 August 3, 1996 Pewaukee, WI

September 14, 1996 Appleton, WI

November 2, 1996 Menomonee, WI

November 3, 1996 Kaukauna, WI

Fox Cities Swapfest

November 9, 1996 Marshfield, WI

Monthly, 1st Sat. Racine, WI

(except January, July & August)

Monthly, 1st Sat. Oak Creek, WI (SWAT/MRAC)

(except May, June, July & August)

Monthly, 2nd Sat. Madison, WI

Monthly, 3rd Wed. West Allis, WI (MRAC)

Monthly, 3rd Sat. Loves Park, IL

Monthly, Last Sat. Wauwatosa, WI (MRAC)

(except December)

Monthly, Last Sat. Tomahawk, WI

(January thru October only)

Quarterly Marshfield, WI

(Second Saturday every third month.)

Many Swapfests/Hamfests offer exam sessions. If not shown above contact the sponsoring club in the Swapfest column on page 2.

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

GENERAL RULES

FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Some examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL. Send a 32¢ SASE if you request one from the ARRL. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$5.90 payable to "ARRL/VEC".

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE or CSCE to the VEC. You must also have two good copies of your license or CSCE. A copy of your license or CSCE must be attached to your FCC form 610 and most VEC want a copy for their records. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

MILWAUKEE RADIO AMATEURS' CLUB (MRAC/VEC)

OAK CREEK, WI (SWAT -MRAC/VEC)

FIRST SATURDAY DATES (No exams June, July or August. May exam on 2nd sat at 1:00 p.m.): 3:30 p.m. at 6560 S. 27th St., Oak Creek, WI. (2 -blocks south of College.) (MRAC fee \$5.00)

THIRD WEDNESDAY DATES: At 6:30 p.m. Manor at Park, 3023 S 84th St., West Allis, WI.

LAST SATURDAY DATES (except December): 9:00 a.m. at 7500 W. State St., Wauwatosa S&L, lower level, Wauwatosa, WI.

For Additional Information Contact; Jack Krause, (414) 774-6999 or call (414) 466-HAMS (Answering Machine) or write MRAC, 1737 N. 116th St., Wauwatosa, WI 53226.

Bring along your ORIGINAL license, CSCE and two (2) good quality photocopies, plus two forms of identification, such a driver's license, etc. Also required is \$5.00 for the exam fee. WALK-INS are welcome. To register in advance, use a post card: print the grade of license you are applying for, and your name, address, and telephone number. Send the card to MRAC/VEC, c/o Jack Krause, W9JK, or Les Peterson, W9YCV at the addresses shown above.

BADGER EXAMINERS (BE) - MILWAUKEE

Amateur exams: 1:00 p.m. to 4:00 p.m.

Commercial exams: 9:00 a.m. to 12:00 noon.

Unless otherwise noted at WMVS-TV studios, MATC Downtown campus in the C building starting at 9:00 a.m. for commercial exams and Amateur exams at 1:00 p.m. the same day. The address is 1036 N. 8th Street, Milwaukee. Enter at the North West entrance of C Building. Walk-ins are welcome. To register in advance, send a post card with your name, test or tests you wish to take, date you wish to take., your call sign, address and telephone number to Badger Examiners, Gary J. Sharbuno, WI9M, 5119 W. Willow Rd., Brown Deer, WI 53223. Telephone (414) 355-0237.

Also available FCC General Radio Telephone Commercial exams. Fees are \$5.90 for the Amateur Radio exams and \$35.00 for the commercial exams.

MADISON, WI

VE exams are held in Madison every second Saturday morning (September through May) of the month at 8 a.m. They are held at the operations building of the Madison Metropolitan Sewerage District at 1610 Moorland Rd. To get there take the Beltline (Hwy 12 & 18) to South Towne Drive. Go south 8/10 mile till South Towne Drive makes a bend and becomes Moorland Rd. and enter at gate.

You should bring a picture ID, your original licence and a copy of your licence. For exams beyond the novice tests, bring a check for \$5.90, made out to the ARRL/VEC. If the special 610 form with the medical exemption is required, contact me beforehand to obtain one. No appointments are necessary to take exams. For further questions, please leave a message on the mailbox or phone me at (608) 832-6631.

Mark Jenks, NZ9B

RIVER FALLS, WI

Held in the church basement at the United Methodist Church, 127 South 2nd St., River Falls, WI. Contact: Chuck Kelly, KA9YRV, 234 W Cascade Ave., River Falls, WI 54022.

REDGRANITE, WI (W5YI & ARRL VEC)

The Radio Amateurs of Wisconsin club from Redgranite will hold their next test session March 9, at 9:00 a.m. Arrive early with copies of your original license and CSCE, if applicable. The club is a dual VE with W5YI and ARRL, and is affiliated with the ARRL. Breakfast at 0800 at the CURVE INN outside Redgranite. All are welcome!!! Testing site at the Civic Center in Redgranite, 202 Pine River road, one block from Highway 21. Talk in on 145.210. Bring identification also, please. For further information contact Terry Witt, AA9BA, at (414) 685-5018 or Jim Cox, AA9QF, at (414) 566-2482.

RACINE, WISCONSIN - ARRL/VEC

Monthly - first Saturday, except January, July, and August.

Monthly exams are given 9:00 to 11:00 a.m. at the Red Cross Building, 4521 Taylor Avenue, Racine. Walk-ins are permitted.

Inquiries and registrations should be directed to Robert N. Jensen, W0WLN, 5616 Cambridge lane #6, Racine, WI. Telephone (414) 886-8551.

TOMAHAWK, WI

Last Saturday of every month. Jan. thru Oct.

Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No preregistration required, but appointment would be appreciated. Registration at 8:30 a.m. and testings starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Terry Collins, KB9AUP, W6564 Highway 8, Tomahawk, WI 54487. Telephone (715) 453-4633.

STEVENS POINT, WI

Contact: Joe Larson, N9JW. (715) 344-1182.

APPLETON, WI - ARRL/VEC

MANITOWOC, WI (HAMFEST)

KAUKAUNA, WI (HAMFEST)

Conducted by the Fox Cities ARC VE team. All test

session in Appleton are held at James Madison Jr. High, 2020 S. Carpenter Street. Candidates check in between 8 and 9 a.m. with testing starting at 9 a.m. No walk-ins after 9 a.m. Contact George R. Croy, W9MDP, 2113 Twin Willows Drive, Appleton, WI 54914. (414) 730-0967, or Larry Siebers, KD9IA (414) 730-0967.

MENOMONIE, WI

The Menomonee VEC will be sponsoring exams from 9:00 to 11:30 a.m. at the UW Stout Communication Center, 820 South Broadway, Menomonee, WI. Use the north entrance. Walk-ins only. Contact Jim Ley, NX9F. Work: (715) 232-1397, Home: (715) 235-3998.

MARSHFIELD, WI (ARRL/VEC)

Sponsored by the Marshfield Area ARS. Held at St. Joseph Hospital, 611 St. Joseph Ave. On 13 April and 9 November in the 1 West classroom located adjacent to the Westwood Cafeteria on the main floor of the hospital. Use the main entrance or any other entrance and follow the signs to the cafeteria. Registration starts at 8:30 a.m. with testing starting at 9:00 a.m. Talk in on the 147.18 Marshfield repeater. Walk-ins welcome. Contact: Walter Friant, WB0KIN, 2310 Wallonie Drive, Marshfield, WI 54449 (715) 387-3870.

GREEN BAY, WI (ARRL/VEC)

Ashwaubenon High School, 2391 S. Ridge Road, Green, Bay. Checkin at 8:00 a.m. and testing starts at 9:00 a.m. Contact N9NOF, Keith Summers, 918 Bluebird St., De Pere, WI 54115. (414) 336-6087, after 4:00 p.m.

BARABOO, WISCONSIN

Location: Public Library, Baraboo, WI. Contact: Steve Schwoegler, WB9RNL, (608) 254-2895.

PEWAUKEE, WI

Kettle Moraine Exam Team. Held at the Pewaukee WCTC Campus Science Building, Room S101. 9:00 a.m. to Noon. Contact Al Johnson, AA7CS. (414) 568-0836.

FOND DU LAC, WI

Community United Methodist Church, 701 Minnesota Ave., North Fond du Lac, from 9:00 am to 12:00 noon. Contact: Doug Schultz, N9EZF, (414) 922-3088.

CEDARBURG, WI - ORC HAMFEST

EAU CLAIRE, WI - ECARC HAMFEST

GREEN BAY, WI - ARES HAMFEST

KAUKAUNA, WI - SWAPFEST

MANITOWOC, WI, LAKESHORE HAMFEST

MARSHFIELD, WI - HAMFEST

OAK CREEK, WI - SMARC HAMFEST

RACINE, WI - RACINE HAMFEST

RHINELANDER, WI - NWARC SWAPFEST

ROCKFORD, IL - RARC HAMFEST

ROTHSCHILD, WI - WVRA HAMFEST

SOUTH MILWAUKEE, WI - SMARC HAMFEST

STEVENS POINT, WI - CWRA SWAPFEST

WAUKESHA, WI - KMRA SWAPFEST

WAUKESHA, WI - MIDWINTER SWAPFEST

DUBUQUE, IA - HAMFEST

See the Swapfest column for additional information and contact persons.

GREAT RIVER AMATEUR RADIO CLUB

DUBUQUE, IOWA - ARRL/VEC

The Great River Amateur Radio Club VEs are now field stocked, which means retests can be given immediately.

Exams are held at 9:00 am at the Central Fire Station, 9th and Central in Dubuque. Use the basement entrance on 9th street. For more info, contact: Carl Clark, NOKAX, 145 Delicia Drive, Dubuque, IA 52001. Or call Carl at 319-557-9149. Talk-ins are on the 147.84/24, 147.63/03 and 146.295/895 repeaters.

LOVES PARK, IL

Third Saturday of every month. Northern Illinois Volunteer Examiners (W5YI VEC). Held at North Suburban District Library, 6340 North Second St. (Hwy. 251), Loves Park, IL. Contact: Dennis G. Eksten, W9SS, (815) 877-6768.

The above information has been furnished by the various VEs. However, it is suggested that you confirm time, date and location BEFORE you make the trip to the test site. Occasionally, a test may be canceled and/or dates and locations changed. A Phone call could save you some grief and a wasted trip.

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules. Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN at the address shown on page 2.

Wisconsin Nets Association Ltd.

Jim Merrill, W9AYK, Secretary • W283 Hillendale Drive • Oconomowoc, WI 53066

SECTION MANAGER'S NOTES



Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee, WI 53221



Proposed legislation LRB 3258/2 is in the works to codify PRB-1 as Wisconsin law. Contact W9RYA, SGL in Oak Creek, for current info, then ask your State Representative and Senator for their support.

Madison Area RA Swapfest and Computer Fair is April 14 at 8 a.m. in Dane County Expo Center Forum Building.

April 14 is Racine Megacycle Club foxhunt.

Relay or deliver your monthly traffic and net reports to our STM KA9KLZ.

W9CBE is a new ASM to work with traffic nets, reports and training.

Congratulations to b0ZO AR Fraternity, now ARRL affiliated.

OOs needed in SE WI, contact OOC N6JSX.

N9UUR is AMSAT Regional Coordinator for Wisconsin, needs RI, DE and IN to complete satellite WAS.

New Northland ARC officers: pres KB9IQR, vp N9IXM, treas W9AJU, secy KB9AMY.

New Watertown ARC officers: pres N9HR, treas WA9YVE, secy WA9OAY.

Ozaukee RC completing relocation of 2 meter repeater. OZARES installing emergency communications for St. Mary's Hospital, WB9RQR for info.

Adams County ARC has autopatch for 911 and to Sheriff in development.

New OBS is K9FHL.

Wisconsin Nets

Net	WNA	Freq.	UTC	CDT	Mgr.
BWN	Yes	3985	1200	0600	W9AYK
BEN	Yes	3985	1800	1200	KE9VU
WSBN	Yes	3985	2330	1730	K9UTQ
WNN	Yes	3723	0000	1800	KA9FVX
WSSN	Yes	3645	0030	1830	N9BDL
WIN/E	Yes	3662	0100	1900	WB9ICH
WIN/L	Yes	3662	0400	2200	W9UW
NWTN	Yes	34/94	0030	1830	NS9Q
(Rhinelander area)					
RCRA	No	01/61	0030	1830	KA9OMC
(Mondays CST) (Menomonie Area)					
Gr. Bay	No	72/12	0245	2045	WB9NRK
(Green Bay Area)					
ARES	No	4.65/5.25	0200	2000	
(South East/South Central Wisconsin)					
RACES	No	3993.5	1400	0800	
WA9OAY (LSB Sunday)					

Tip for April's club meeting: arrange special field trip to local point of interest (observatory, electric utility or broadcast station transmitter).

Mail your 1996 Annual Report form for your ARRL Affiliated Club or SSC to League Headquarters or contact ACC K9FHI for details.

Exams: April 6 Racine, April 13 Green Bay and Marshfield, April 20 Milwaukee, April 27 Tomahawk.

Let me know if you need a free list of 127 Wisconsin nets or 111 clubs.

Sorry to report Silent Key W9VQD.

Thought for the month: *Life can only be understood backwards, but it must be lived forwards.* □

Hams to Support 1996 Madison Marathon

The Madison Marathon has been scheduled for Sunday, May 26th. The marathon staff has asked for ham radio support for this marathon that will probably have national media coverage. At least 50 hams are needed.

Bob Aspinwall, KA9JPZ, 1-608-222-3444, packet KA9JPZ@N9KAN.EN53JB.WI.USA.NOAM, has been assigned as the director of communications for the event, and anyone who can assist should contact Bob. You can help even if it is for only part of the marathon.

This marathon will probably have a minimum of 4000 participants, and the number could go as high as 9000. This year the course will be an open course (roads will not be closed), and this makes the use of hams more important than ever, due to the possibility of injuries.

The first group will leave the Capitol square at 6 AM and the last group will leave at approximately 8:10 AM. The finish line will be in Olin Park.

This is a charitable event, with all profits going to local Madison charitable organizations after event expenses. For information about the marathon you can call the Madison Marathon, Inc. office at 1-608-256-9922 or FAX 1-608-256-9927.

- Mack Brophy, N9NTB

SKYWARN Training Date/Place Changed

On March 16, 1996 Tom Weedon, WJ9H, South Central Skywarn Emergency Coordinator, Gary Canalte, WU9U, Channel 3 TV Weatherman, representatives from NOAA, and the Dane County ARES will conduct a Skywarn Advanced Severe Weather Reporting training seminar for all Amateur Radio operators who desire to attend. There is no cost for this training. This training will be conducted in the Division of Emergency Government (DEG) auditorium located in the southeast corner of the Department of Military Affairs Bldg., 2400 Wright st. (the intersection of Wright and Hoffman Streets, 1 block west of Hwy. 51, SE corner of Truax Field). The training will start at 11 AM and end approximately 2 PM. All Amateur Radio operators are encouraged to attend. For further information, feel free to contact Tom Weedon at 1-608-276-7915 or by packet at: WJ9H@N9KAN.EN53JB.WI.USA.NOAM or on the internet TCWEEDEN@AOL.COM.

- Mack Brophy, N9NTB



Tri-County Amateur Radio Club Presents:

HAMFEST 1996

to be held on
Sunday, March 17

at the
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Hwy. 18 West, Jefferson, WI
from 8:00 A.M. until 2:00 p.m.

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 - Vendors - Please unload at northwest side door.
 - Vendors only parking will be provided for unloading. (PLEASE... NO EARLY SALES - Thank you.)

Plate Lunches and Beverage provided by Jefferson County 4-H.

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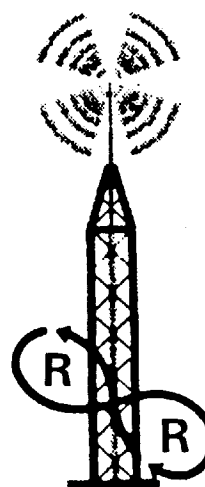
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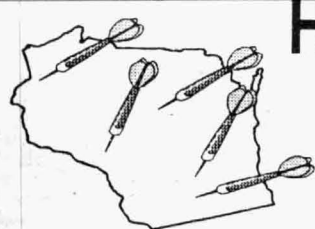
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HERE and THERE

15-Year-Old Russian Girl Seeks Pen Pals

Hello! My name is Marina. I am 15 years old. I learn in high school. I play piono. I study English. I like sport. I like animals. I have a cat and a dog. I have very many friends. I will answer to everybody. I live in Rostov-on-Don, in Russia. Write me anywhere you live. Thank you for reading this. RZ6LWP@UA6LU.RST.RUS.EU.

- from packet

Hams Help Test Army Radio Station Headed to Bosnia

Hams are helping a Bosnia-bound US Army mobile AM radio station at Fort Meade, Maryland, test its broadcasting capabilities. The station, assisted by a group of Amateur Radio AM enthusiasts in the Washington, DC, area, seeks reception reports. Fred Cresce, KC4MOP; Steve Ickes, WB3HUZ, Ken Moffat, N3EAR, and Paul Courson, WA3VJB, are staffing the new Army Broadcast Service station on 1670 kHz, which is identifying itself as ABS Radio and playing music. The frequency is in the newly expanded Standard Broadcast Band.

Courson, a broadcaster with Dow Jones, says the station began broadcasting around the clock February 5 and so far has received reports from as far away as California. He said he and the other hams were brought in to help specifically because of their AM activity on the amateur bands. The 5000-W transmitter is working into a 150-foot vertical antenna the hams helped set up and tune. The station will continue broadcasting from Fort Meade until February 9. Then, the portable station will be packed up for transport to Bosnia, where it will be set up to entertain and inform US troops stationed there.

Reception reports go to the Army Broadcast Service, 601 North Fairfax St, Alexandria, VA 22314. Write DX on the outside of the envelope.

- ARRL Bulletin ARLX006, 2/8/96

New Findings on Solar Storms

Scientists predict they can now provide as much as 50 to 70 hours advance warning of solar storms that cause electrified particles to wash over Earth, disrupting communications and the electrical power grid. Using data from the Yohkoh satellite, scientists have directly linked a dimming process that occurs in the Sun's corona with huge solar flares. The findings are the result of data from the Japan/US Soft X-Ray Telescope aboard the Yohkoh spacecraft and from power industry studies. Scientists say ionized oxygen is the culprit in creating huge energized rings in Earth's ionosphere just before the onslaught of a geomagnetic storm. Knowing the composition of these highly energized rings allows scientists to better understand when they occur in the 11-year solar cycle and to anticipate periods of high-energy activity. These and other findings were presented at an international gathering of solar physicists, power and utilities representatives and members of the Department of

Silent Key

J. Travis Baird, W9VQD, 84, died January 24. Please see page 8.

Skywarn Training Time



Paul Collar, meteorologist with the National Weather Service's Milwaukee/Sullivan office, prepares for a severe weather spotter training program after a meeting of the Washington County Amateur Radio Club.

- Photo courtesy Tom Waldschmidt/N9LZW

Energy national laboratories, held this week at Jet Propulsion Laboratory (JPL) in Pasadena, California, and sponsored by the American Geophysical Union and the National Science Foundation.

- The ARRL Letter, 2/16/96

Vanity Calls Delayed

ARRL has learned that the FCC may delay until mid-1996 the announcement of when it plans to open the first gate or gates of the vanity call sign program. A Commission spokesman says the FCC first wants to deal with remaining Petitions for Reconsideration it has received. The FCC had been expected to announce opening dates early this year.

FCC vanity call sign application Form 610V is now available, but the FCC will not accept completed forms until it opens the appropriate filing gates.

Prospective applicants can get the FCC Form 610V package by writing ARRL, 225 Main Street, Newington, CT 06111. Please include an SASE. Form 610V also is available from the FCC via the Internet at <http://www.fcc.gov/Forms/Form610V> or <ftp://ftp.fcc.gov/pub/Forms/Form610V/>, or by fax at 202-418-0177. Ask for Form 006108.

The FCC's Forms Distribution Center also accepts orders for Form 610V at 800-418-3676.

- ARRL Bulletin ARLB011, 2/15/96

Are You a New BSSS Reader?

If you are, we hope you like what you see in these pages. If you do, we invite you to subscribe. Please use the semi-convenient clip-out form below.

PRB-1 Change Sought by League

The American Radio Relay League wants the FCC to take additional steps to compel state and local governments to make reasonable accommodation for Amateur Radio under PRB-1 and apply the least restrictive means to regulate amateur antennas and activity. In a petition for rule-making filed February 7, the League calls on the FCC to amend Section 97.15(E) to say that any state or local ordinances restricting ham radio antennas to heights below 70 feet would be presumed unreasonable, unless the state or local authority could show its restrictions support a clearly defined health, safety or aesthetic objective. State and local governments also could not impose substantial application costs on amateur service licensees.

The league also wants the FCC to acknowledge that it has an interest in the effective performance of amateur radio stations in areas regulated by deed restrictions or restrictive covenants rather than by local zoning ordinances.

The league says clarifying the preemption policy (PRB-1) would help guide municipalities to enact provisions that make fair accommodation for amateurs and avoid highly divisive litigation between hams and localities.

Under the suggested changes, state and local governments could apply to the commission for a full or partial waiver of the amended rules in unusual circumstances.

The FCC has not assigned a rulemaking petition (RM) number.

Here is the suggested wording of Section 97.15(E) the petition requests:

(1) State and local regulation of a station antenna structure must not preclude amateur service communications. Rather, it must reasonably accommodate such communication; it must constitute the minimum practicable regulation to accomplish the state or local authority's legitimate purpose and it must not impose substantial costs on amateur service licensees.

(2) Any state or local antenna restriction or regulation which, on its face or as applied, would limit amateur station antennas to heights below 70 feet is presumed unreasonable unless the promulgating authority can demonstrate that such regulation is necessary to accomplish a clearly defined, and expressly stated health, safety or aesthetic objective that there is no less burdensome alternative to the regulation and that the federal interest in efficient amateur radio communications from the amateur station at issue is otherwise reasonably accommodated.

(3) Any state or local authority, or other entity that wishes to maintain and enforce zoning, land use or other regulations or restrictions inconsistent with this section may apply to the commission for a full or partial waiver of this section. Such waivers may be granted by the commission in its sole discretion, upon a showing by the applicant that local concerns of a highly specialized or unusual nature create an overwhelming necessity for regulation inconsistent with this section. No application for waiver shall be considered unless it includes the particular regulation for which waiver is sought. Waivers granted according to this rule shall not apply to later-enacted or amended regulations by the local authority unless the commission expressly orders otherwise.

- ARRL Bulletin ARLB009, 2/15/96

Editor's note: The current effort to codify PRB-1, as it is currently written, as Wisconsin law should continue. The FCC may reject the ARRL proposal, it may accept parts of it, it may accept all of it, or do something different, and any action by the Commission is likely to take a long time.

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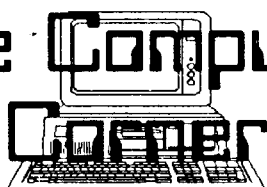
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Send this form, with your check or money order, to Jim Decker, WB9UQT, Treasurer, P.O. Box 337, Baraboo, WI 53913-0337. Please do NOT send cash!

March 1996

The Computer



By Stan Kaplan, WB9RQR

105 Martin Drive

Port Washington, WI 53074-9654

(414) 284-9346

WB9RQR @ N9PBY.EN63B1.WI.USA.NA

SKAPLAN @ POST.ITS.MCW.EDU

No. 29: OVERHANG

Last month, we saw that the 512 byte SECTOR is the smallest "chunk" of information that your computer can read from or write to the hard drive at one time. Containing about the amount of data in a paragraph typed on a 3 X 5 inch index card, the size of the sector is a hardware limitations. We also saw that neighboring sectors on the hard drive can be arranged into a software group known as an ALLOCATION UNIT or CLUSTER. If you have a tiny hard drive - below 16 megabytes - a cluster consists of just one 512 byte sector. I also suggested that we create a file named STAN and put just these 6 bytes in it: WB9RQR. When we save the file all 512 bytes will be allocated to STAN even though only 6 bytes are used. That means that 506 bytes of unused hard drive space are tied up permanently in that file, until the file is erased. This unused but unavailable space is called CLUSTER OVERHANG.

Cluster overhang also exists in larger files. Suppose you type a long letter - about 2 pages - and it occupies 5,500 bytes (5.4 kilobytes). On our tiny hard drive, the file will occupy 11 clusters of 512 bytes (11 X 512 = 5,632 bytes). The first 10 will be full, but the last one will contain only 380 bytes. The overhang in this cluster will be 132 bytes.

Cluster overhang tends to waste about half the cluster size for each file on the drive, if there are several hundred files of varying size. Suppose our 16 megabyte drive has 200 files on it. Chances are that the overhang wastes about 51,200 bytes in this case. That is not a big problem with our 16 megabyte drive, but it can be for larger hard drives. The rub is: larger hard drives use clusters that have more than one sector.

If your hard drive is between 16 and 128 megabytes in size, each cluster occupies 2,048 bytes or 4 sectors. The file STAN, containing only 6 bytes, would have a cluster overhang of 2,042 bytes. Even larger hard drives have larger clusters, as shown in the following tables.

SIZE OF PARTITION

up to 16 megabytes
16 megabytes to 128 mb
128 megabytes to 256 mb
256 megabytes to 512 mb
512 megabytes to 1 gb
1 gigabyte to 2 gb
2 gigabytes to 4 gb

SIZE OF EACH CLUSTER IN:

bytes	kilobytes	sectors
512	½	1
2,048	2	4
4,096	4	8
8,192	8	16
16,384	16	32
32,768	32	64
65,536	64	128

Across the room is a computer which I use for modem work. It has a 100 megabyte hard drive, 59% full. It uses 2,048 byte clusters and has just

shy of 2 megabytes of wasted, cluster overhang (4,059 index cards of data). On the other hand, I am writing this on a machine with a 504 megabyte hard drive which is 51% full and which uses 8,192 byte clusters. There is a whopping 16.7 megabytes of space wasted in cluster overhang. Calculations show that if the latter drive was just 9 megabytes larger, cluster size would have gone to 16,384 bytes (32 sectors), and the overhang would have jumped to over 35 megabytes. That is 72,000 index cards full of wasted data space, easily more cards than are used by your local community library!

Now, I have to tell you a secret. That 504 megabyte drive I mentioned above is really a 540 megabyte drive. When I partitioned it (with FDISK), I told the partitioning program to make the biggest drive it could. It came up with the maximum allowed, as explained in last month's article - 504 megabytes. That turns out to be 36 megabytes short of the actual space available on the drive. Had I been more astute, I would have partitioned it into two drives, C: and D:, perhaps each 270 megabytes in size. That way, I would have had use of those 36 megs that I can't use now, which is nearly the equivalent of a 40 megabyte hard drive, something we would have paid several hundred dollars for not many years ago!

On the other hand, if I partition it into two 270 megabyte drives, the cluster size will remain at 16 sectors or 8,192 bytes (see the table) and I would continue to average about 4 kilobytes of wasted space for each file on the drive. If I partitioned it into three drives (C:, D: and E:) of 180 megabytes each, every cluster would contain 8 sectors or 4,096 bytes. The average wasted space for each file would be only about 2 kilobytes. Hmmmm. I am going to repartition that drive as soon as it becomes 2/3 full!

I hope this has clearly illustrated the relationship between hard drive size, cluster size as a function of the number of sectors each cluster contains, and cluster overhang. It should also reveal to you the complexity in making decisions about setting up your machine. A good rule of thumb is to limit the size of your partitions insofar as is possible. For example, don't partition a drive so that its size is equal to or just over one of the size jumps in the table above. If you must make a single partition, make it 255 megabytes, not 256. Your gain in efficiency due to lower overhang will more than make up for the megabyte of space you loose. Also, even if you have an advanced BIOS or software that will let you go over the usual 504 megabyte drive size limit, keep your drives below 512 megabytes. These rules of thumb come from author and computer guru Jeff Prossie, and he really knows his stuff.

Finally, a word of caution. When you repartition a drive using FDISK (it is really a simple job), you will destroy every byte of data on the drive. Be sure to copy everything to floppies or tape first! And don't forget, when you are done with FDISK, you must first format the drive (using the FORMAT C:/S command) before you can use the drive again. Happy computing!

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LF AND Down

The 1750 Meter Experimenter's Band

By Dave Spearing, KB9CSW
910 Prospect, Portage, WI 53901

Audio and LF Sweep Generator Kit

(Editor's note: The LF and Down column, which Dave writes on an as time permits basis, is intended to provide our readers with information about the so-called "Experimenter's Band", in the area of 170 kHz - that's right, kHz, not MHz. Current rules permit beacon operation in that frequency area with one watt of power and fifty feet of antenna, including any radials. In spite of those restrictions, many of these beacons can be heard from 800 miles away. There has also apparently been some discussion about granting radio amateurs access to this area. Currently, no license is needed. Presumably, if hams get privileges here, more reasonable antennas will be permitted. It's an intriguing area in which to experiment.)

The last time I wrote this column was about a year ago and in it I wrote about a method of testing the frequency of tuned circuits (a coil and capacitor in parallel). The tuned circuit, sometimes called a tank circuit, is the most common building block for both filters and oscillators used in low frequency radios. In my last article I explained how to make the tuned circuit into an oscillator so that its frequency can be read out on a frequency counter. Going along with that same theme, of filters, I write this product review! The product is a Boyd Electronics (1998 Southgate Way, Grants Pass, OR 97526; 503-476-9583), RF Sweep Generator, model RSG - 2. A sweep generator is device used to test filters by sweeping a range of frequencies and observing the frequencies which are passed on an oscilloscope. For further information you may wish to read the review in the September 1995 issue of "73", pages 68ff.

There are two basic problems with sweep generators: they are usually quite expensive and there are few which work in the LF and audio range. This solves both problems!

The kit sells for \$49.95 and consists of two circuit boards and the parts to install on them. Other parts can be purchased from your friendly local Radio Shack store for about \$20, depending upon the contents of your junk box. I followed the instructions in the manual to the letter except that I used a different power plug (one which fits Dave's Standard), a fuse holder, switch and knobs all from my junk box and I added a power ON light.

On the plus side -- First, it worked the first time that I flicked the switch on! I needed only to align it and I was finished. How many kits have you built which do that? Second, it does exactly what it is supposed to do. Third, the manual is well written and easy to follow for the experienced kit builder. fourth, it looks good in my pile of test equipment.

On the minus side -- First, This is not a kit for the beginning kit builder. Though the manual is good it is not up to Heathkit standards, for instance, it assumes that the builder knows the color code on resistors. Second, it assumes that the builder has a frequency counter and an oscilloscope. True an oscilloscope is needed to read the output. Third, the drilling patterns for the cabinet is in decimal inches (some of which are translated into 16th). I could go on nit picking, but I shall not.

If a sweep generator is in your future check out both the RSG - 2 (0 to 2 MHz) or perhaps its older sister, the RSG - 30 (2 to 30MHz). I think you will be pleased. I am. □

Join the Fun in the 1996 Wisconsin QSO Party

The 1996 Wisconsin QSO Party (WQP) is scheduled to begin at 12 noon CST (1800Z) SUNDAY MARCH 10, 1996, and will run till 7 PM (0100Z March 11). The annual 7-hour event is sponsored by the West Allis Radio Amateur Club (WARAC). WQP is open to all hams, regardless of class or location. WQP is also an opportunity to work some of the "rare" Wisconsin counties, due to the many mobiles that take to Wisconsin highways, to activate these counties, in their efforts to operate from as many counties as they can during the 7 hours.



The entry/rules form was printed in the last issue of *Smoke Signals*, along with a suggested list of abbreviations. You can also find the entry/rules form and abbreviations listed on your favorite bulletin board on packet. Plus, this year we also have the same information listed on the world wide web, for those who have access to that system. It is under WA9-POV home page, address <http://www.execpc.com/WARAC>. For those who do not have access to any of the above, you can still send a request for forms/information to our post office box - WARAC WQP, P.O. Box 1072, Milwaukee, WI 53201. We have log sheets for WQP for those that use paper logging - send a request to our post office box. WARAC also sent out information to Wisconsin clubs via the U.S. Postal Service. Remember, all entry forms need to be postmarked by March 31, 1996 to be entered in this years WQP: ALL ENTRIES need to be mailed to our post office box.



Again this year WARAC will be issuing THE TOP AWARD for the HIGHEST SINGLE OPERATOR scores from within Wisconsin and also from an entry outside of Wisconsin. It will include a plaque and a taste of Wisconsin.

I need to address several questions that keep coming up.

Number 1 - Last year, we adjusted the "suggested" list of frequencies to try and be as GENERIC as possible. Evidently that is still a questionable area for some. You need to realize that THERE IS ONLY SO MUCH SPACE AVAILABLE ON THIS FORM FOR "FREQUENCIES." WE ONLY HAVE 2 LINES AVAILABLE. If we were to start listing specific frequencies on all the bands, we could fill an entire 8.5 by 11 inch side of paper. WE DO NOT INTEND TO EXCLUDE ANYONE, ANY BAND OR ANY MODE. LET ME SAY IT VERY CLEAR - YOU MAY USE ANY FREQUENCY ON ANY BAND THAT DOES NOT INTERFERE WITH ANYONE ELSE, AND IS A RECOGNIZED BAND WHERE CONTESTS ARE NORMALLY HELD.

Number 2 - SIGNAL REPORTS. For many, many years it has been the practice. Every year we get suggestions on how the signal reports should be. We prefer to let the operators operate as best they can. If you want to include a signal report in your exchange, then do so. If you prefer not to, then do not include a signal report. We leave that up to you. LET ME ALSO SAY THIS CLEARLY - NOWHERE IN THE RULES DOES IT INDICATE THAT A SIGNAL REPORT IS REQUIRED.

Last year we had 157 entries in WQP, representing 109 WI entries and 48 from the rest of the US and Canada. 22 states and one Canadian province sent in logs. 66 WI counties were represented - Clark, Dunn, Eau Claire, Jackson, Menominee and St. Croix were missing. 49 states (no Alaska) and 5 Canadian provinces were found in the logs. Many stations do not send in logs - if they had they would have probably won their section. WE ENCOURAGE ALL OPERATORS TO SEND IN THEIR LOGS.

We also want to suggest that everyone try to include a picture of their operation. And for those so inclined, maybe a short article would be nice. *Smoke Signals* has space available for both in their monthly issues. Either send them to Jim Romelfanger, K9ZZ, BSSS Editor, 412 1/2 Ash Street, Baraboo, WI 53913 OR to our post office box. WARAC encourages as much publicity as we can get. *Smoke Signals* will remain our OFFICIAL publication for WQP. As usual, the complete results will be printed in *Smoke Signals*, which will be mailed FREE to all entrants. The results will appear in the July, 1996 issue.

None of the standing records changed in 1995.

Do not forget that WQP is also an opportunity to work the 72 Wisconsin counties needed for you to qualify for the WARAC-sponsored WAWC (Worked All Wisconsin Counties) AWARD.

To quote my favorite editor, I close with this - known nationwide as one of the best QSO parties going, the annual Wisconsin QSO Party is a seven-hour-long "sprint." Serious contesters, casual operators, and everyone in between, will find fun in this one. It's open to hams of all license classes and it offers those interested in getting the "feel" of contesting an enjoyable way to get their feet wet. Even those amateurs who don't usually operate in contests will find fun here, especially if they are in one of the more rare Wisconsin counties. If you are in the "casual" operator category, pop in the contest for an hour or so. You might just enjoy it. You might also be surprised who you run across.

When operating, please listen for the weaker signals. They will probably be the mobile stations working hard to provide the rare counties OR the out-of-state stations on one of the higher frequency bands.

Wisconsin stations, be sure to call CQ on the higher frequency bands to enable the out-of-state stations to fully participate, BOTH phone and CW. See you the second Sunday of March, 1996.

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The Infinite Frequency Spectrum

By Richard Regent, K9GDF
5003 South 26th Street, Milwaukee, WI 53221

J. Travis Baird, W9VQD, passed away on January 24, 1996 at the age of 82. About a year ago Travis had a heart pacemaker implanted to insure a regular heart beat, but recently had some strokes from which he never recovered.

Travis loved to do everything in his busy lifetime. He enjoyed photography, speed skating, sailing, football, computers, music, the opera, playing the violin, taking nifty travel trips and most of all his family. As a youth he was an Eagle Scout. Shortly after building a crystal set he was first licensed in 1935 as W9VQD. He graduated from the University of Wisconsin-Madison in Electrical Engineering in 1938. Mr. Baird met the beautiful red-haired Marion at one of his engineering jobs and they married on October 5, 1940. He later became the father of two daughters and as the family grew, they worked together to help design and build their own house. He was a PTA president. He was on the Engineering staff at U.S. Naval Underwater Sound Labs and Submarine Signal Corps and held the Navy MARS call NNN0ENB. His careers included working as Assistant Electrical Engineer at Underwriters Laboratories prior to WW-II, Square-D and with his own partnership company of Graphic Enterprises in Milwaukee.

W9VQD operated 160 through 1-1/4 meters, including the ATV mode, and enjoyed 47 years of ARES volunteer activity. He was a Life Member of the Quarter Century Wireless Association, with a 60-year QCWA plaque, and a Director from 1987-89. He is well remembered as auctioneer of QCWA Chapter 55 who could auction most anything to raise money for the Chapter. One member slipped him his own sport coat and for a while he almost started bids on its sale.

Travis joined the Milwaukee Radio Amateur Club in 1932. He was awarded a trophy as 1940 MRAC pie-eating champion. He led the Club to organize and sponsor the 1948 ARRL National Convention in Milwaukee, of which he was a Life Member also. W9VQD was MRAC President in 1962 and 1966. Travis once stated about radio clubs, "The only way to get a good seat is to come early or to be an officer." He always got a seat, because he has held almost every office in every club in the area at various times. W9VQD was also active in the Ozaukee Radio Club.

Travis told me "I have all these patches on my sweater to cover solder holes". Some days he would wear a T-shirt with the words "I'll be in the basement," where he would experiment with loads of electronic parts and radios piled around narrow winding aisles. He would emerge with ideas, like using spark-gap transmitter parts to keep squirrels away from his bird feeder. Travis was early at swapfests carrying his empty gym bag to collect bargains and "junkie." He would sneak back into the house to empty the full bag, as his daughter Betsy said, "into the one-way basement".

Travis helped others before he would fix his own broken dryer. When Jon Pierre Coenen, OK1KCN, came to Milwaukee as a part of a teacher exchange program, he wanted to find another ham to help get settled. So W9VQD welcomed him to the area and gave him a tour of the landmarks and radio clubs. Travis was a good will ambassador for ham radio over the next several years, and also a great friend, so that on Jon's next visit to the states he took the license exams and eventually got the call N9FOW. Travis and his wife then returned a visit to their friend Jon on one of their travels.

Travis is survived by his wife Marion, daughters Betsy (Stephen) Barnes and Mary Lou Baird, and grandsons Andrew and Peter Barnes, who will remember him for his enthusiasm for life, as a most unforgettable character who loved to laugh, and as a renaissance man who loved people.

Travis will be missed by radio clubs as most cherished of all members. Amateur Radio operators still recall Travis, peering over the top of his reading glasses, in a bow tie and wearing a sport coat, giving a Santa-like laugh. As Ed Willie, W9PWG, summed up our thoughts at the memorial service, "Thank you Travis, for being a wonderful lovable friend."

Overheard Remarks

By Richard Regent, K9GDF
5003 South 26th Street, Milwaukee, WI 53221

Did you attend the West Allis RAC Swapfest in January? There was lots to see and plenty to talk about. There were license exams being given starting at 9 a.m. at the Red Carpet right across the street.

John, NZ9Z, saw a used Hallicrafters S-38 shortwave receiver and immediately bought it. The S-38 reminded him of the one he had 35 years ago when he was first licensed in ham radio and had one with a Heathkit DX-20 transmitter at his early station. John's lucky find was in good condition and had all its tubes. As John left we simultaneously questioned each other "Wonder if it works?"

Fred, W9NZF, found an old Original Standard Vibroplex semi-automatic key and negotiated for a good price. When he gets some spare time he will clean and restore the telegraph key before adding it to his collection. Fred also reports seeing someone with a name tag with the words "If it ain't CW, then it's CB."

Busy STM Art, KA9KLZ, told us about all the traffic activity in Wisconsin. As he was leaving to check out other tables in the Swapfest he waved and surprised us all by saying "But there's other things than ham radio!"

Dennis, K9MKC, and I were talking about our ease of remembering information from long ago but having trouble with short term memories. Just then Chuck, W9CHD, arrived and said he was having the same problem. We have been friends for nearly 40 years. To prove the theory Chuck gave my old address and then to our amazement recited my U.S. Army serial number "US55753766" from when we corresponded during 1964 through 1966! But soon we forgot what we were talking about and all went our own ways.

Thanks to the West Allis RAC for providing a free table and admission for the League. There were many questions answered and pamphlets handed out. For sure, it was another fun swapfest.

RRRC Honors Roy Pedersen, K9FHI

By Duane Haas, W9BCV
410 DeClark Street, Beaver Dam, WI 53916



- Photo by Duane Haas/W9BCV

Roy Pedersen, K9FHI, was chosen as the 1995 "Ham of the Year" by the Rock River Radio Club. The above photo shows him receiving the plaque from Arnie Zietlow, KA9FNE, with Roy's wife, Beryl, KA9BAC, looking on. Arnie was last year's recipient of the award, so it was his duty to present the award at the club's annual Christmas party.

Roy has been a member of the club since he received his first license and has served as an officer in various capacities over the years. He currently is the general chairman of the club's annual Field Day and, along with his wife, Beryl, provide the hospitality tent and food for that event. They both are members of the club's ARRL Volunteer Exam Team and serve as the club's "Sunshine committee." They are usually the first to volunteer for many of the club activities.

They have two sons who are also licensed hams, Gary, KA9BAE, and Mike, N9QMV. They all hold Extra Class licenses except for Mike.

Roy is very active on most of the Badger Nets and loves to handle traffic. He is an assistant ECC for the Dodge County ARES. He was ARRL Section

FCC Call Sign Update

The following is a list of the FCC's most recently issued call signs as of February 1.

District	Group A Extra	Group B Advanced	Group C Tech/Gen	Group D Novice
0	AB0AO	KI0AV	++	KB0VFH
1	AA1PL	KE1EA	N1WOJ	KB1BWP
2	AB2AA	KG2FN	++	KB2WXM
3	AA3NK	KE3VY	N3WTW	KB3BNF
4	AE4QB	KT4KE	++	KF4GNF
5	AC5GK	KK5WI	++	KC5SQT
6	AC6SH	KQ6DN	++	KF6BGO
7	AB7OR	KJ7UK	++	KC7PBF
8	AA8VV	KG8VF	++	KC8CGD
9	AA9RE	KG9FK	++	KB9MOU
N. Mariana	KH0V	AH0AW	KH0ER	WH0ABE
Guam	WH2S	AH2DB	KH2PL	WH2ANP
Hawaii	++	AH6OK	++	WH6CZW
Amer. Samoa	AH8O	AH8AH	KH8CK	WH8ABF
Alaska	++	AL7QI	++	WL7CRO
Virgin	WP2V	KP2CJ	NP2IU	WP2AIA
Puerto Rico	++	++	++	WP4NIR

++ All call signs in this group have been issued in this area.

- ARRL Bulletin ARLB010, 2/15/96

Manager for Wisconsin from 1973 through 1984 and is currently the assistant Section Manager. The Rock River Radio Club has submitted a petition to the ARRL nominating him to be our new Section Manager when Rich Regent, K9GDF, retires.

The Rock River Radio Club is Dodge County's oldest radio club and is one of the oldest in the state, dating back to the early 30's. In those days the club was noted for their hamfests held at the Fireman's Park in Waterloo, and they advertised it as being "one of the Biggest Hamfests in the Md-West" from 1935 up to WW2.

The club was reactivated after the war and has been active ever since. It is a Special Service Club with the call W9TCH and it sponsors the 146.64 (Juneau) repeater and the BVD Packet System on 145.03 in Beaver Dam. It currently has a membership of just over 100 members.



Ask Elmer

Q. Some of the MS-DOS commands aren't described in the instruction manual, what can I do?

A. DOS commands are now all conveniently described in recent versions of DOS in an on-screen program called Help. You can start MS-DOS Help by typing **help** at the command prompt. To get help on a specific command, type **help** followed by the command name, for example, **help copy**.

Q. What does http stand for in E-Mail addresses?

A. It is hyper text transfer protocol.

Q. What is CHRP?

A. CHRP stands for Common Hardware Reference Platform, a standard which provides further flexibility and savings by allowing us to move machines between users without concern for operating systems. Right now there are DOS, Windows, UNIX and MacOS machines. We tend to toss out older x86 machines and UNIX machines as they become outdated. Then too, Microsoft and Intel makes their systems obsolete with new versions, resulting in a surplus of machines. So having a common platform could slow computer obsolescence. One good thing, a surplus of old computers creates a good source to use on dedicated 2-meter packet systems!

Q. Is there anything I should do for the year 2000 besides reset the computer clock?

A. Millions of computer programs with date-related elements and logic will recognize "00" as the year 1900. This could cause problems for brokerage houses, insurance, mortgage bankers, government, manufacturing and maybe even amateur radio. This may happen because in some computers the internal clock will only work with the 1900 years and not work beyond December 31, 1999. Building security systems or embedded devices that activate copy machines, elevators, remote devices or building systems might not roll over to 2000. Let's hope all mainframes, PCs and software conversions are ready for the year 2000 so we aren't locked out of the workplace building or garage.

Q. Is there a program I can use to find and remove garbage on my hard drive?

A. Try **CHKDSK.EXE** which scans the disk and reports size, disk memory available, RAM available and checks for and corrects logical (not physical) errors. Just enter **CHKDSK C:/f** at the prompt. When it finds an error, it asks if you want to convert lost clusters to files in the form **FILE0001.CHK**. You then read the file to decide if the information is valuable and should be saved or garbage that should be deleted. But do not use **CHKDSK** from inside any program, especially Windows.

Do you have a question or a problem? Ask Elmer! Send your questions (no telephone calls, please) to "Ask Elmer," 5003 South 26th Street, Milwaukee, WI 53221. □

We're on the Internet

BSSS is now on the Internet. We do not have a web page, but we did not want one anyway (and it costs much more). We did need access to news sources, many of which have moved to the web. Our e-mail address is:

smokesigs@baraboo.com

Going on the net unfortunately revealed more shortcomings with our computer. The software filled the double-spaced hard drive nearly full; modern software has simply outrun our "antique" hardware. The computer is *much* too slow (386/33 MHz). Having a web page print on screen takes forever. We do not have enough memory in the machine.

Good news and bad news, all in one, eh? But, hey, we're on the net. □

PRODUCT REVIEW

CQ VHF

**Reviewed by
Rich Regent, K9GDF**

There's a new magazine for all hams who enjoy operating on 50 MHz and above called **CQ VHF**. Nearly one third of a million U.S. hams have license privileges that permit operation on frequencies above 50 MHz. So **CQ VHF** magazine will serve the operating and technical interests of those VHFers and others. New hams in this group are in general well educated, computer literate, active amateurs interested in exploring new aspects - especially VHF.

The magazine masthead lists 34 people who worked to create the 84-page premier issue on

January/February, 1996, and will continue to teach and welcome newcomers with their articles.

Richard Moseson, NW2L, Editor, sent me a complimentary issue and later some e-mail. Rich is Section Manager for Northern New Jersey and lives in Bloomfield; he has been a ham for 25 years. In response to my e-mail to Rich congratulating him on the new magazine he says "I've been learning something new from nearly every article, as well. I enjoy reading your contributions to (and especially your cartoons) in the *Badger State Smoke Signals*."

First issue articles include repeater operating basics, sporadic-E mysteries, work satellites from your packet station and build an HT charge checker. Subscription price for one year is \$21.95, or you may find it at the news stand. For more information write to: **CQ VHF**, 76 North Broadway, Hicksville, NY 11801, phone: (516) 681-2922, FAX: (516) 681-2926, or e-mail **CQVHF@aol.com**. □

Solar Cycle Near Bottom

Despite some earlier reports that the current sunspot cycle had bottomed out, it could be another year before things start looking up, depending on which data you use. Solar prognosticator Tad Cook, KT7H, reports that solar activity is still very low, and "we are very close to the solar minimum." The latest projections show 10.7-cm solar flux--actually a radio measurement of the amount of energy at that wavelength--reaching minimum around a year from now, during January and February 1997. Solar flux seems to correlate with density of ionization in the ionosphere and consequent HF propagation.

But other projections, based on direct telescopic observations of sunspots, show the sunspot number reaching minimum during April through June of this year, and a big increase starting late in 1997. The sunspot number is derived by counting visible dark spots on the sun and factoring in their area. Last summer, astronomers observed what they believe to be the first spots of the new cycle on the sun's polar regions. Spots shift in magnetic polarity from one cycle to another, Cook says, making it

possible to differentiate the "new" spots from the current ones. In any case, just when Cycle 23 begins often is not "officially" determined until well after the event transpires. "There's some overlap" between cycles, he explains.

From Cook's point of view, the solar flux is a more reliable indicator of how solar activity will affect HF propagation on Earth. As most hams know already, solar disturbances, primarily solar flares, can disrupt radio (and other) communication. "These throw out huge amounts of protons," Cook explains about the flares. "If they're aimed right at the earth, they can be very disruptive." Among the most disturbed days in recent weeks was January 29, when the A index reached 18, and the K index was as high as five. Otherwise geomagnetic conditions were quiet over this period, Cook says.

Solar flux should head down toward 70 by February 12 and then back above the mid-70s late in the month. Sunspot numbers in late January had a mean of 13.7.

- The ARRL Letter, 2/9/96

Software Beta Testers Sought

The ByteMark Corporation seeks 250 beta testers for its new CoreCalc for Windows program, which helps users select and use Amidon toroid cores. The program looks up the AL value of the powdered-iron toroid, calculates the number of turns needed for the desired inductance, suggests

wire size and even calculates prices associated with Amidon parts orders. Test subscriptions are \$29.95.

For details, contact ByteMark Corporation, 7714 Trent St, Orlando, FL 32807; tel, 407-679-3184; fax, 407-673-2083.

- The ARRL Letter, 2/9/96

FREE! Digital Radio Seminar by Kantronics

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Phil Anderson, WØXI - President of Kantronics

Karl Medcalf, WK5M - Kantronics Product Test Engineer

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Please call, fax or BBS by March 20th to reserve your seat

PARTICIPATING CLUBS AND ORGANIZATIONS

Taylor County Area Amateur Radio Club

Mike Schoenfuss, N9GHZ, Secretary

P. O. Box 401 • Abbotsford, WI 54405-0401

MEETING ANNOUNCEMENT

The next regular meeting will be held on Thursday, March 7th at 7 p.m. in the Emergency Government meeting room located in the basement of the sheriff's annex to the Taylor County Courthouse, corner of 2nd and Ogden Sts., Medford, WI. Talk-in on the 147.15 Medford repeater (+600 kHz) or 146.52 MHz simplex.

EXCERPTS FROM MINUTES OF FEBRUARY 1, 1996 MEETING

NOTE: Due to the extremely cold weather and inclement conditions on this date, and taking into account the "rural" makeup of a large share of the club membership, the meeting was held "on the air" on the Medford repeater in lieu of the usual meeting site in Medford.

Meeting was called to order by Presi-

dent N9GEN. Present were N9GEN, KE4FE, AA9LE, WD9FWP, N9UBR and N9GHZ.

Minutes of the January 4, 1996 meeting were read by Secretary N9GHZ. They were approved as read. Treasurer's report was presented by N9GEN in the absence of Treasurer KA9WDX.

It was reported that nothing further has been heard about the proposed sharing of an antenna between the club's 2-meter repeater and a commercial radio paging service.

N9GHZ asked if anyone present had been contacted about, or had been involved in providing communications for the 4th Annual Perkinstown Tramp Snowshoe Races And Tours held on January 20th. No one present reported having been contacted or having been involved this year.

The meetings held on January 15th and 16th in Medford, concerning the coming of Internet access to Medford and Taylor

County, were discussed. It sounds as though it will be here as of March 1, 1996.

Meeting was adjourned.

CLARK/TAYLOR COUNTY AMATEUR RADIO EMERGENCY SERVICE (ARES) NEWS

Mike Schoenfuss, N9GHZ
ARES Emergency Coordinator

Don't forget to try to check into the weekly ARES net held Wednesdays at 8:30 p.m. on the Medford repeater (147.75/147.15). If the repeater is down or not functioning properly, alternate frequencies, in order, are 147.15 MHz simplex and 146.52 MHz simplex. You're also encouraged to volunteer for net control duty for the net.

On February 7, 1996, N9GHZ attended a simulated disaster functional exercise, held at the fire hall in Gilman, Wis. The exercise was being conducted by the Taylor County Office of Emergency Government.

CONGRATULATIONS TO..

☆ Jessica Winzenried, KB9AMX, Colby, and a student at UW-Stevens Point, who recently earned academic recognition (Honors) for the first semester. She is the daughter of Marc Winzenried, WA9-ZCO.

☆ Jessica Winzenried (KB9AMX), who received several awards at the 47th Annual Chippewa Valley School Press Association's Fall, 1995 conference, for materials which had been published in the Colby High School newspaper during the 1994-95 school year. All entries in a given category are considered together, so the size of the school and age of participants is not considered in the awarding of the prizes. Jessica earned a first place in the categories of candid photo and general interest black and white photography. She also received an honorable mention award in column writing.

OTHER NEWS

☆ New officers for the Black River Wireless Association (BRWA) are as follows: Jim Baily, N9ZLU, President; Jim Hauge, KB9KFD, Vice-President; Marvin Geiger, WD9INA, Secretary-Treasurer. The BRWA is located in Clark County. □

Wisconsin Nets Association Ltd.

NTS TRAFFIC REPORT January 1996

In January, for a change, traffic is up a little for the month compared to December. Check-ins are down, probably due to all of the snow birds who are escaping from our Wisconsin winter. Bad band conditions, resulting in lots of relays, have raised the traffic count. With the deplorable band conditions, all hands are doing a fine job.

With six out of the seven Wisconsin nets reporting, 3443 stations passed 2908 pieces of traffic in January. As usual, the Badger Weather Net (N/M W9AYK) led the way with 1907 check-ins and 2655 messages passed. The Badger Emergency Net (N/M KE9VU) had 772 check-ins and 137 messages passed. There was no report from the Wisconsin Sideband Net this month. The Wisconsin Slow Speed Net (N/M N9BDL) had 198 check-ins and 13 messages passed. The Wisconsin Interstate Net/Early (N/M WB9ICH) had 189 check-ins and 56 messages passed. The Wisconsin Interstate Net/Late (N/M W9UW) had 118 check-ins and 12 messages passed. The Northwoods Traffic Net (N/M NS9Q) had 259 check-ins and 35 messages passed. Hopefully, the longer days will bring a little better propagation to the evening nets. Some improvement has been shown on the WSSB and WSSN already.

I have had a person offering to start the Wisconsin Novice Net up again. Any one interested in participating in the WNN please contact me with your ideas and hopefully we can get this net moving again.

In January, there were six stations with

traffic counts over 100, two of whom made Brass Pounders League. The stations are: W9AYK/2633 (BPL), WB9JSW/728 (BPL), W9CBE/351, K9FHI/332, KB9UE/110, and W9YCV/105.

Twenty six stations submitted Station Activity Reports and ten stations submitted Public Service Honor Roll reports in January.

I will be out of the state from Feb. 20 until Mar. 5. All February reports will go to W9CBE, Assistant STM.

I mail my reports to League Headquarters on the 7th of the month. That makes the deadline for reports the 6th. I can accept reports until I start printing them up for mailing. If you can catch me on the BWN on the morning of the 7th all would be well.

Hale Blakely, W9CBE, will also accept reports and forward them to me. Hale covers most of the CW and SSB nets, so there is someone on almost every net to take reports.

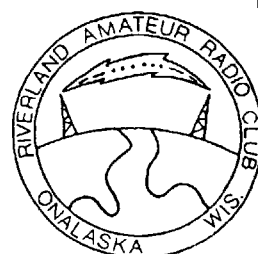
Reports can also be sent VIA packet. My packet address is:

KA9KLZ @ NX9V.WI.USA.NOAM

NX9V forwards directly into my PBBS, so getting reports to me is not dependent on my checking NX9V's mailbox.

Thanks to all stations who participate in the Wisconsin nets. You are the nets and Wisconsin nets are the best. 73

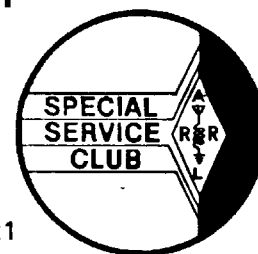
Submitted by Arthur A. Evans, KA9KLZ
Wisconsin Section Traffic Manager
February 7, 1996



Riverland Amateur Radio Club

Tom O'Brien, WB9BJQ
Secretary

Club mail address: P.O. Box 621
Onalaska, WI 54650



MEETING MINUTES February 6, 1996

The February meeting of the Riverland Amateur Radio Club was called to order at 7:00 p.m. on February 6, 1996 by President Duane, W9HWQ. There were 30 people were in attendance.

The minutes of the January meeting were approved as they appeared in the *Badger State Smoke Signals*.

The treasurer's report was accepted as read. Judy, N9LGV, reported that of the 90 members we had for 1995, 48 have paid their dues for 1996.

Programs: Feroz, WU9N, reported that tonight's program will be a primer by Walt, AA9AW, on what we can and can not do on the 146.97 repeater. The March program will be a demo on accessing ham radio information on the Internet by Dan, N9PZC. Red, WO0W, will give a talk at a future meeting on lightning.

440 Repeater: Dan, N9PZC, reported that the committee had met and narrowed down the choices of controllers to two. They are still having problems ordering a service manual for the Motorola Moxie radios from Motorola.

Net Manager: Mike, N9LXI, was absent.

ARES/Skywarn: Kent, W9LZQ, reported that a Red Cross Disaster Drill has been changed to March 2, 1996 and will involve Houston county. Those who have had the Red Cross Disaster Assessment training should mark this on their calendars. The Red Cross will be offering disaster assessment training this spring. Skywarn operations training at the National Weather Service will be held on March 7, 1996 at the NWS office. Skywarn spotters training will be held on March 23, 1996 at 10:00 am in room 100 Cowley Hall on the UWL campus.

Trailer: From now on will be referred to as Property Manager due to a motion that was passed under New Business.

Swapfest: Dick, K0JYB, reported that flyers are being distributed at the Swapfest in the twin cities.

146.97 Repeater: Walt, AA9AW, reports that the 146.97 repeater is working fine other than having a small amount of intermod on occasion that we seem to encounter every year during real cold weather.

Field Day: Karl, KB9EQI, reported that he is considering several sites.

VEC: Bill, KE9XQ, has not scheduled test sessions yet for 1996. He is planning to have tests at the Swapfest in August and four other times throughout the year. He will be publishing the dates in the *Badger State Smoke Signals*.

OLD BUSINESS

Due to problems contacting Mike, N9LXI, and the fact that the Sunday Night Net has not been running, a temporary volunteer net manager was solicited. Karl, KB9EQI, volunteered.

Feroz, WU9N, reported on the RARC annual party which was held at the Light-house restaurant on January 20, 1996. There was a very good turnout. Awards were presented at the dinner. Bob, N9-LZK, received the President's Special Appreciation Award. Dick, K0JYB, received the Ham of the Year Award. Dan, N9PZC, received the New Ham of the Year Award. Awards of Appreciation went to Bill, KE9XQ; Walt, AA9AW; and Kent, W9LZQ. Elmer's Awards went to Mark, N9UNW; Kent, W9LZQ; and Dan, N9PZC. Thanks go to Robin, KB9LAC, for making the awards.

NEW BUSINESS

Bob, N9LZK, made a motion to add a section to the standing rules of the club on

FROM THE EDITOR..

✓ Thank you to the Mancorad Radio Club for allocating \$65 in matching funds for BSSS to get improved scanning and optical character recognition software. We hope other clubs will consider getting us to the necessary \$130 total. The current software does work, but is a minimal package which often causes as many problems as it solves.

✓ For the Ladies, by Nancy Johnson, N9NZM, does not appear this month. Nancy writes the column as her time permits, and is currently working on two columns. One involves doing some interviews, and we're looking forward to it.

✓ Joe Mayenschein, WB9SBD, of the Near Space Sciences balloon-carried Amateur Radio missions, says all is "go" for a rocket launch in Sheboygan in early May. We hope to have more next issue, and followup stories and photos afterward.

Continued on page 11

Riverland Amateur Radio Club

Continued from page 10

the use of club equipment. The three parts of the motion were:

1. Any club member has the right to use club equipment at any club sponsored event.

2. No member shall store, hold, borrow, or retain club property, without the consent of the property manager.

3. The property manager shall keep an up-to-date record of all club property and its location.

The property manager shall provide a copy of this information to the club treasurer to hold in the club files.

It was seconded by AA9AW. The motion passed.

Feroz, WU9N, made a motion to compile and publish in booklet form the Constitution and the Standing Rules of the club and the repeater operation guidelines. The motion was seconded by Karl, KB9-EQI, and passed.

Judy, N9LGV, is checking into having some of the extra copies we receive of the *Badger State Smoke Signals* sent to various libraries around the area.

Greg, KA9FOZ, has purchased hundreds of the Sam's repair manuals. Contact Greg if these interest you.

At 8:03 p.m., Feroz WU9N made a motion to adjourn the meeting. It was seconded by Karl, KB9EQI, and passed.

Respectfully submitted by Dan, N9PZC



Washington County Amateur Radio Club

Tom Waldschmidt, N9LZW,
Secretary
465 Elder Lane
Allenton, WI 53002-9799



Club Repeater: 146.73 MHz

MONTHLY MEETING MINUTES February 8, 1996

The February 8, 1996 meeting of the Washington County Amateur Radio Club was called to order at 7:37 P.M. by President Walt Gossfeld with 16 members and 3 guests present.

The minutes of the January meeting were read by Secretary, Tom, N9LZW. There was a motion by Marty, WD9BCV, seconded by Kevin, N9LTH, to approve the minutes as read. Motion carried.

The Treasurer's Report was read by Treasurer Dave, KA9RNU. There was a motion by Sherm, W9NGT, seconded by Mark, N9UGH, to accept the Treasurer's Report. Motion carried.

Don, K9GR, gave a Repeater Committee Report. Don explained that Jim, K9VV, would be helping us by checking the tuning of the club's repeater and duplexer this weekend.

An ARES report was given by Tom, N9LZW. Tom reported that there is an ARES/RACES Packet Training program scheduled for February 10th in Madison. There is also a SKYWARN advanced severe weather training program scheduled in March. The Foundation for Amateur Radio has scholarships available for anyone that may be interested. There was information on a fund raising offer in which personalized key chains could be sold.

One free ticket to the LAMARSFEST 1996 was available.

Tom, N9LZW, also announced that he was asking to step down as the ARES Emergency Coordinator and RACES Radio Officer because of an inadequate amount of time available to devote to the job.

Tom, N9LZW, also regrets that he can no longer use his ham radio in his squad to relay reports from mobile stations. This apparently is the result of someone's annoyance over multiple reports of the same incident being reported by various methods, including the increasingly more prevalent cellular phones.

President Walt, N9LLS, presented certificates of appreciation to the following members who were not present at the annual banquet:

Paul Rippel, W9SIZ, for his work with the Repeater Committee and as Field Day Chairman.

Sherm Carr, W9NGT, for his work on the Repeater Committee.

Paul Thyren, N9KIK, was named Ham of the Year for his exemplary service as Program Chairman for many years.

OLD BUSINESS

Don, K9GR, asked about the meeting programs scheduled for his year. Meeting programs have been scheduled through June. Ideas for the second half of 1996 are needed.

There was a motion by Sherm, W9NGT, seconded by Kevin, N9LTH, to adjourn the meeting. Motion carried.

Respectfully submitted:
Tom, N9LZW

Following the meeting, Paul Collar, meteorologist with the Milwaukee/Sullivan National Weather Service, presented a program on Severe Weather Spotting. Mr. Collar's enthusiasm for his work was quite evident and made his presentation enjoyable, as well as educational.

Saturday Morning Breakfasts

Many Washington County ARC members get together each Saturday morning for breakfast. Friends and guests are always welcome. The location varies, so here is the schedule from Larry, WB9-BVB, our club's food chairman:

Mar 2, 1996 9:00 AM Jimmy's Restaurant in Jackson

Mar 9, 1996 9:00 AM Slinger Inn in Slinger

Mar 16, 1996 9:00 AM Corfu Restaurant in Richfield

Mar 23, 1996 9:00 AM Fay's Restaurant in West Bend

Mar 30, 1996 9:00 AM Parkside Cafe in Jackson



Left to right: Jim Pamperin, Washington County Emergency Government Director; Paul Collar, meteorologist with the NWS Sullivan office; and Walt Gossfeld, N9LLS, Washington County Amateur Radio Club President, posed for this photo after a severe weather training program at the club's February meeting.

- Photo courtesy Tom Waldschmidt/N9LZW

The Racine Megacycle Club



Club Station W9UDU • Racine, WI
ARRL Affiliated

Providing Communications for American Red Cross and ARES

Alex Voss, N9RGX, Secretary
c/o RMC • P. O. Box 3 • Racine, WI 53401-0003



MEETING MINUTES February 12, 1996

The meeting was called to order by president Rob Madson, KF9ZT, at 7:34 P.M. local time. Those present were:

Rob, KF9ZT, President
Kenny, N9WHR, Vice President
Alex, N9RGX, Secretary
Dave AA9HL Treasurer
Lee, N9VNU, Activities Manager
Dan, KA9OIL, Trustee
Fern, W9LCJ
Don, KB9HAM
Bob, W0WLN
Cheryl, WS9P
Larry, WA9JMO
Pete, KB9LXM
Joe, KB9HSJ
Tim, Studying
Arne, KA9ZPY
Gene, WB9ZKY
Bill, W9ERG
Jean, W9ERG/XYL
Spence, W9LDH
Ken, N9NBC
Paul, N9RGW
Dennis, WB9SVM
Bill, W9OVZ
Greg, KF9TU
Ray, N9VBD
Alan, N9ZWJ
Steve, KB9MND
Dennis, KG9DO
Tony, N9ZWM
Rees, K9UUT
Dave, KC9NG
Kathy, N9ZWN

ACTIVITIES MANAGER'S REPORT

Lee, N9VNU, brought up the upcoming Wisconsin QSO party. We will be operating the club station, W9UDU, during the QSO party. He had copies of the rules available and asked for people to come and operate. If you have never worked a contest, now is your chance! If you have any questions or would like to operate, contact Lee, N9VNU.

SECRETARY'S REPORT

The minutes for the January meeting were accepted as printed in the *Badger State Smoke Signals*.

TREASURER'S REPORT

The Treasurer's report was accepted as read.

FOX HUNT REPORT

Dennis said we had an abbreviated hunt this time due to the cold weather. Joe, KB9HSJ, and group came in first and will be the Fox on the next hunt on March 1.

OLD BUSINESS

Lee, N9VNU, said that he got a letter from the Kenosha City Attorney inviting Ray, WB9LST, and himself to meet with the City Attorney personally the week of the 19th concerning the proposed Kenosha ordinance against RFI caused by Cbers.

Larry, WA9JMO, was asked about the Worked 99/Wisconsin award. He said that he had spoke with Cheryl, WS9P, about redesigning the award and has nothing to report at this time.

Larry, WA9JMO, also brought up the 1996 Ham Banquet on March 2nd, 1996 at the Racine Yacht Club, 2 Hubbard Street. He said there will be an outstanding program, nice entertainment and a lot of fellowship. Sign up now! Contact Bob, W0WLN, for reservations.

NEW BUSINESS

Cheryl, WS9P, brought up that we could have a HAM RADIO CRUISE some

Ham Calendar 1996 Courtesy Racine Megacycle Club

MARCH

Fri	1	RMC Fox Hunt
Sat	2	S. E. WI Annual Ham Banquet
Sat	2	Testing Racine
S-S	2	Internat'l DX Contest PH
Sun	3	Kenosha Ham Breakfast
Sun	10	Hamfest Waukesha
Sun	10	Wisconsin QSO Party - Noon to 7 p.m.
Sun	10	Kenosha Porky Breakfast
Mon	11	RMC meeting
Fri	15	through
Sun	17	KB9KUT Winter Campout
Sun	17	Hamfest Jefferson
Mon	18	QCWA #162 Business Meeting
Fri	29	RMC Fox Hunt
Sun	31	Hamfest Grayslake

APRIL

Sat	6	Testing Racine
Sun	7	Kenosha Ham Breakfast
Mon	8	RMC meeting
Sun	14	QCWA #162 Annivers. Dinner
Sun	14	Hamfest Madison
Fri	26	RMC Fox Hunt
Tue	30	Lakeshore meeting

MAY

Sat	4	Testing Racine
Sat	4	Hamfest Cedarburg
Sun	5	Kenosha Ham Breakfast
Sat	11	Hamfest Manitowoc
Sat	11	Hamfest Peotone
Mon	13	RMC meeting
Fri	17	through
Sun	19	Dayton Hamvention
Sat	18	through
Sun	19	50 MHz Spring Sprint
Mon	20	QCWA #162 Business Meeting
Fri	24	RMC Fox Hunt

JUNE

Sat	1	Testing Racine
Sat	1	Hamfest Friendship
Sun	2	Kenosha Ham Breakfast
Sun	2	Hamfest Princeton
Sat	8	through
Mon	10	VHF QSO Party
Sun	9	Hamfest Stevens Point
Sun	9	Hamfest McHenry
Mon	10	RMC meeting
Fri	21	RMC Fox Hunt
Sat	22	Field Day starts
Sun	23	Field Day ends

JULY

Sun	7	Kenosha Ham Breakfast
Mon	8	RMC meeting
Sat	13	Hamfest Oak Creek
Sat	13	IARU HF World Champ'ship
Fri	19	RMC Fox Hunt
Sat	27	Hamfest Eau Claire
Sat	27	Hamfest Rockford
Sun	28	HAMFEST RACINE!
Tue	30	Lakeshore meeting

AUGUST

Sat	3	through
Sun	4	UHF Contest
Sun	4	Kenosha Ham Breakfast
Mon	12	RMC Meeting
Fri	16	RMC Fox Hunt
Sat	17	through
Sun	18	10 GHz Contest
Sun	18	QCWA #162 Annual Picnic
Sat	24	Hamfest Onalaska

SEPTEMBER

Sun	1	Kenosha Ham Breakfast
Sat	7	Testing Racine
Mon	8	RMC Meeting
Fri	13	RMC Fox Hunt
Fri	13	through
Sun	15	Hamfest Peoria
Sat	14	through
Sun	15	VHF QSO Party
Sun	16	QCWA #162 Business Meeting
Sat	21	Amateur Radio Awareness
Sat	21	through
Sun	22	Hamfest Grayslake
Sat	21	through
Sun	22	10 GHz Contest

OCTOBER

Sat	5	Testing Racine
Sun	6	Kenosha Ham Breakfast
Fri	11	RMC Fox Hunt
Sun	13	Hamfest Waukesha (KMRA)
Mon	14	RMC Meeting
Sat	19	through
Sun	20	BSA Jamboree on the Air
Sat	19	through
Sun	20	Simulated Emergency Test
Sun	20	QCWA #162 Election
Tue	28	Lakeshore Meeting

NOVEMBER

Sat	2	Testing Racine
Sat	2	Sweepstakes - CW
Sun	3	Kenosha Ham Breakfast
Fri	8	RMC Fox Hunt
Mon	11	RMC Meeting
Sat	16	through
Mon	18	Sweepstakes - Phone
Mon	18	QCWA #162 Business Meeting

DECEMBER

Sun	1	Kenosha Ham Breakfast
Fri	6	RMC Fox Hunt
Fri	6	through
Sun	8	160-Meter Contest
Sat	7	Testing Racine
Sun	8	QCWA #162 Christmas Meeting
Mon	9	RMC Christmas Meeting
Sat	14	10-Meter Contest
Tue	31	Straight Key Night

time in 1997. She had a survey for us to fill out to find out what kind of cruise would be appealing to the Ham community. The survey is open to all hams and a copy will be printed in the *Badger State*

Please turn to page 12

Red Cedar Repeater Association, Inc.

Steve Hart, KA9OMC, Secretary

E616 810th Avenue

Knapp, WI 54749

2-Meter Repeater: 146.01 Input/146.61 Output

Greetings, RCRA sponsors and guests.

The most recent gathering was in Menomonie on January 23. Balance on the account was \$377.10.

The following were in attendance:

N9TOW, Doug
KB9MMT, Jeff, and YL Terry
NX9F, Jim
N9ZFY, Everett
N9WJY, Rod
KB9AGC, Melvin
KA9PVY, Ken
KB9MAU, Judy
KF9CU, Arlene
KA9OMC, Steve

Some announcements were made regarding the new E911 capability on the system, and NX9F reminded us of the upcoming Skywarn Spotter training, scheduled for March 9 at the Myrtle Werth Medical Center, 2321 Stout Road, Menomonie, WI. There will be two training sessions this year to choose from. Training is available from 9 a.m. to 11 a.m. or 1 p.m. to 3 p.m. Registration is required, and there is no fee for attending. Contact 232-2333 and leave your name on the system if after normal business hours.

W9VAJ, Jim Humphrey, presented a program on his trips to Nicaragua and contacts he has made via Amateur Radio there. Jim's discussion revolved around his brother-in-law's ministry there, and the rebuilding of a church which was destroyed during the war. Efforts are ongoing

to finish the restoration, and Jim has just departed to Nicaragua to help with the remaining work that was his brother-in-law's last work and wish up to his recent death.

Jim presented many photos and talked about his life and work at District 6 State Patrol until his recent retirement. W9VAJ was first licensed in 1952 in Milwaukee. Much of Jim's ham interest was done without the aid of study manuals such as we have today. Out thanks to Jim for an excellent program.

Much of the work over the last two months here at RCRA has been in preparation for the annual auction on February 27. To date, close to 300 auction flyers have been mailed out to inform amateurs of this event. We will have a complete report next month on the auction activity.

The next social hour for the RCRA will be March 26 at the Cornucopia Restaurant in the T-Bird Mall, Menomonie, at 7:30 p.m. See you there.

Please make welcome new amateurs:

KB9MAU and KB9JGZ, Judy and Doug Holtzman;

KB9MMT, Jeff Wait; and

KB9MMR, Bill Kramer.

73.

Steve Hart, KA9OMC
RCRA Secretary/Treasurer

Racine Megacycle Club

Continued from page 11

Smoke Signals. Any ham interested may fill out the survey and send it to: SURVEY c/o RMC P.O. Box 3 Racine, WI 53401-0003.

ANNOUNCEMENTS

Alex, N9RGX, said any ham radio organization sponsoring a ham fest, special event or what ever may have it added to the Ham Calendar for FREE by sending a letter to: HAM CALENDAR c/o RMC P.O. BOX 3 Racine, WI 53401-0003. Please note there is extremely limited

space and we can not post anything more often than once every 4 weeks.

The Kenosha Explorer Scout Post 424, KB9KUT, is holding its annual Porky Pancake Breakfast at U.A.W. Local 72 meeting hall 3615 Washington Road, Kenosha, Wisconsin. Tickets are \$3.00 in advance or \$3.50 at the door contact Harold Bouse, WD9HPZ at (414)552-8349. The pokey breakfast is a great way to start the day before the Wisconsin QSO Party. Talk-ins on 147.270+.

The Kenosha Explorer Post 424, KB9KUT, will be operating 2 meters and on the low bands during their Winter CAMP OUT on the weekend of March 15-17.

Respectfully Submitted:
Alexander Voss
Secretary RMC

WOULD YOU BE INTERESTED IN A HAM RADIO CRUISE?

If you would be interested in going on a cruise sometime in 1997, Please fill out this no-obligation information gathering survey and send it to: Survey, c/o RMC, P.O. Box 3, Racine, WI 53405-0003.

Name _____ Call Sign _____

Address _____

1. Have you ever been on a cruise? YES NO
2. If so, how long ago? _____ Where did you go? _____
3. If you were to go on a cruise, would you prefer 4 or 7 days? _____
4. Would you prefer the Caribbean, Mexico, or Alaska? (circle one)
5. What time of year would you prefer to go? _____
6. If a cruise was organized for Wisconsin Amateur Radio Operators and their spouses for 1997, would you consider going? (circle one)

YES PROBABLY NOT INTERESTED

7. If you have cruised before and would like to suggest a cruise line or ship for this trip write your response here. _____
8. What might keep you from going on a cruise? _____
9. What have you heard about cruising that might make you want to go? _____

10. What special activities would you like to have planned as a part of a "Ham Radio" Cruise? _____

If you have any questions you may call Cheryl, WS9P, at (414)632-2985

Eau Claire Amateur Radio Club

Carl Searing, W9NW, Secretary

1129 McKinley Road • Eau Claire, WI 54703

MEETING MINUTES February 13, 1996

The meeting opened at 1930, and swung immediately into the program, given by Dr. Tom King, WF9I, and his wife Debra, N9GLG. Using video and overhead, they described Morse Outreach 2000, an organization. "presenting Morse Code uses in rehabilitation and education". This was well given, well received, and most interesting.

Paul Bittner, W0AIH, introduced a good friend who is visiting the area, and who talked briefly to us. He is Gennady Honin, of Alma Ata, Kazakhstan, who currently holds the call AA8OR, and was formerly UL7QF, as well as the holder of many other calls.

The club received a note of thanks from the Eau Claire Ski Striders, the organization who put on the Fritjof Nansen ski race on January 13th. Bert Spangler, W9ZZI, gathered the communications volunteers for the event, including: KB9BC, K9BDN, KG9EK, N9UXC, and W9ZZI.

After the reading of the Secretary's and Treasurer's reports, the club held the regular February election of Directors. The present slate of N9HME, KB9R, and W9NW was unanimously re-elected.

W9ZZI mentioned that the program

for the March meeting is tentative as yet, but that April's program is to start one-half hour earlier than usual, due to the length of the presentation by representatives of the Weather Service, who will give NOAA Skywarn training to us, as well as to members of local police and fire protection agencies.

Club finances were discussed. Ideas for use were suggested and solicited.

Members were cautioned about abuses occurring on the repeater autopatch. It was stressed that local calls only are to be initiated.

There was discussion of the new hamfest site, still under construction, but coming along nicely. The matter of prizes was covered at some length. WB9RBP will chair the prize committee.

Speaking of prizes (and those responsible for them), Nolene Harlson, N9MNA, has purchased the Christmas presents for the annual club Christmas party for some time. She made a real effort last year, and perhaps spent some of her own money. She was voted an increased sum for this year's party presents.

Lunch committee for the March meeting: N9HME, KB9R.

The meeting adjourned at 2130.

Respectfully submitted:
W9NW, Secretary



SHEBOYGAN County Amateur Radio Club

Mike Musiel, KF9SJ, Secretary
N9001 Dairyland Rd., Cleveland, WI 53015

2-Meter Repeater: 147.06 Output

The February meeting of the Sheboygan County Amateur Radio Club was called to order by Chris, N9VKC, during the SCARC yearly Banquet. The SCARC meets at the Red Cross Building, 2032 Erie Ave., Sheboygan WI at 7 p.m. on the second and fourth Tuesday of the month. There is usually no general membership meeting in February, because of the Banquet, and July, because of Field Day.

Club Meeting Notes

The March 12 meeting will be a big one! We currently have two exciting speakers scheduled for this date. Once again, we are pleased to have Mr. Paul Collar from the National Weather Service as a speaker. He will be presenting a program on weather and weather spotting. This is always a popular presentation, so come early!

And speaking of coming early, the club meeting will start at 6 PM this evening, due to the need to fit in two speakers. Mr. Dave Dunlap will be speaking to the club in regards to the rocket launch coming up on May 4. This will be an action packed meeting so don't miss it!

Banquet Notes

This year's banquet was again held at Klemme's Wagon Wheel Restaurant in Howard's Grove. Our thanks go out to Chris, N9VKC, Kurt, N9ZMO, and Steve, N9TRK, for making arrangements and getting award plaques, etc. Thanks to Mike, N9SVQ, for setting the night aside to be our DJ, and for being understanding when our room accommodations were not spacious enough for him to set up his equipment. A special thank you to Don, KD9PE, for the donation of the ice cream cakes for desert. I've been told by many that this desert is the real reason some of our club members come to the banquet.

This year's Ham of the Year was presented by last year's HOTY, Tom, AA9BJ. Tom was happy to announce that Penny, N9TCF, was this year's recipient. Penny has been a very active member of the club, serving in roles as club president,

public relations and Field Day coordinator, an active VE, and in her "spare" time is currently teaching a Novice / Tech ham class. Congratulations, Penny!

This year's SPAM of the year award, announced by last years winner, Chris, N9VKC, went to Jerry, K9JHK. Jerry's wit and general good-natured harassment on the air has made him the hands down winner for this year. Congratulations Jerry, and we hope you recover quickly from your surgery so you can continue your wit and wisdom on the air!

Two service awards were given out this year. The first award went to Joe, N9REH. Joe has made his repeater (147.255 +127.3) available for club use. Something that has come in very useful during our current club repeater moves. Joe has also been very active in our fox hunts, and has built the last two fox transmitters. His time and contributions are greatly appreciated by the club.

The other service award was presented to Mike, KF9SJ. This was quite a surprise to me. All I can say is thanks.

Power Failure!

On Thursday, February 1 around 3:30 PM, a substation transformer failed in the city of Plymouth. It was quickly determined that it would take at least twelve hours to fix, and that most of Plymouth would be without power and heat, as we headed into 25 below temperatures for the night. A emergency services net was set up by KB9AFT, and soon we had 12 active check ins. This net coordinated communications between the Red Cross, and the Shelters that were set up, and Amateur Radio operators helped to shuttle supplies to where they were needed. Of the initial check ins, 8 worked through the night to provide communications between the three Red Cross Shelters, and the Red Cross building in Sheboygan. Thanks to all those who helped out, Rob, KB9AFT, Kurt, N9ZMO, Penny, N9TCF, Sky, N9XRU, Chris, N9VKC, Steve, N9TRK, Tom, AA9BJ, Jim, WA9SNU, Art, K9XJ,

Continued on page 13

Sheboygan County Amateur Radio Club

Continued from page 12

Jan, KB9KMF, Mike, N9SVQ, Bruce, N9YLQ, and Mike, KF9SJ.

Nets

The Packet Net Lives Again! The Sunday night packet net is moving to Saturday night. The net will use the Converse (conference) mode available in KG9-BO's mailbox. If you would like to participate, contact Josh at KG9BO on the Sheboygan LAN frequency of 144.99 MHz,

or tune into the Monday Night Fun Net for more info.

Monday Night Fun Net. Meets at 7 p.m. local time on 147.06 MHz (+107.2PL). All with an Amateur Radio license of Technician class or higher are welcome to check in to this informal get together.

Monday Night 10 Meter Fun Net. Meets around 7:30 p.m., generally following the 2 meter net. The net meets on 28.350 MHz (USB), and all code class Amateur Radio operators are welcome to check in.

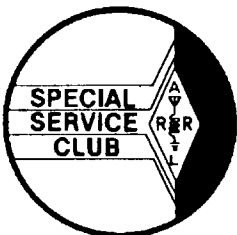
Sunday Morning Coffee Clutch and G5RV Net. In transition, stay tuned for more information.

Submitted by
Michael J. Musiel, KF9SJ

Mancorad Radio Club

John Meyer, N29Z, Secretary

P.O. Box 204 • Manitowoc, WI
54221-0204



2-Meter Repeater: 146.01 Input/146.61 Output

MEETING MINUTES February 14, 1996

The February meeting was called to order by club president Red, N9GHE, at 7:33 PM.

The Minutes of the January meeting were approved as printed in the *Badger State Smoke Signals*. The motion to accept was made by Len, N9QFO, seconded by Eric, WD9IAB. The treasurer's report was approved as read. The motion to accept was made by Bill, K9DUX, seconded by Barney, N9XER.

Red noted that the Midwinter Banquet was well attended, with more than fifty members and guests enjoying the good food and the program. A special "Thank You" goes out to Mark, W9OP, and Mike, ND9O, for the fine presentation on their operation from Miquelon Island -- everyone really enjoyed it!

Old Business

The constitution and bylaws amendments proposed at the last meeting were passed unanimously. Motion to approve was made by Ken, K9HAG, seconded by Eric, WD9IAB.

Looking ahead to the hamfest, volunteers are needed for some of the committees.

John, N29Z, gave the club an update on the situation in Sri Lanka. Schools are now back in session there, and it looks like the 100-year Anniversary celebration at St. Joseph's College will go on as scheduled. An El/Az rotor is being purchased for the school with the last of the donations obtained last year from radio clubs in Northeast Wisconsin. Yaesu gave a very good deal to the project.

New Business

Eric showed the members a keychain that's on the market for hams. It's made like a miniature Wisconsin license plate with the ham's callsign on it. Your

secretary has details for anyone interested.

Copies of the *Wirebook III* were passed out to members present. It is an excellent reference booklet on coax, connectors, baluns, and a lot more.

A motion was made by your secretary and seconded by Eric that the ManCoRad Club pledge up to \$65 in matching funds to the *Badger State Smoke Signals* to assist them in the purchase of new scanning software for their fine publication. The motion passed unanimously.

After passed discussion in which several options were evaluated, a motion was made by Ken, seconded by Clancy, KB9ECW, to once again purchase a 2M HT as the main hamfest door prize. The motion passed unanimously.

Your secretary noted that many of our programs in the past have been about DXpeditions. As a bit of a change, he introduced the night's program, a video taken by Penny, N9TCF, from the Sheboygan area, of W0AIH, Rev. Paul Bittner's super contest station near Eau Claire. Your secretary will be spending the first weekend of March there operating in the ARRL DX Phone Contest.

The meeting closed at 8:40 PM and refreshments were served.

Submitted for approval:
John Meyer, N29Z, Secretary

February 1996 Meeting Attendance

Red	N9GHE
John	N29Z
Glenn	AA9MT
Gene	KB9KXF
Vic	WB9VYO
Eric	WD9IAB
Bill	N9XEZ
Mary	KB9GOY
Ken	K9HAG
Clancy	KB9ECW
Barney	N9XER
Jeff	N9XEV
Paul	N9QFX
Len	N9QFO
Bill	K9DUX

\$2000 Fine Affirmed for Unlicensed 11-Meter Operator

The FCC's Compliance and Information Bureau has affirmed its decision to fine Danny Lee Coffield \$2000 for operating an unlicensed transmitter on 27.7744 MHz in 1993. Coffield, 47, of Lakewood, California, has since obtained his Amateur Radio Technician class license and holds the call sign KE6RIX. After the FCC imposed the penalty, Coffield filed a Petition for Reconsideration claiming FCC agents failed to properly identify themselves; that he had the right, under FCC rules, to remove the unauthorized frequencies from his transceiver instead of being fined and that what the FCC really heard was his legal CB operation "bleeding over" to 27.7744 MHz from an authorized CB channel. The FCC found Coffield's assertions unpersuasive or without merit and noted that it had warned Coffield of the potential penalties for unlicensed operation prior to citing him on September 29, 1993. The FCC's order was adopted February 7, and Coffield has 30 days to pay the penalty. The FCC did not indicate in its notice whether Coffield's ham license, issued in 1995, would be in jeopardy.--FCC

- The ARRL Letter, 2/16/96

Quarter Century Wireless Association Southeastern Wisconsin Chapter 162

Larry McCalvy, WA9JMO
5400 Six Mile Road
Radne, WI 53402



Our first social gathering of the new year has faded into history and 23 Chapter members, spouses and guests left the Summit Restaurant amply satiated. We dined, talked and managed to conduct a little business. We selected a club QSL card for the Chapter's Club Call, KB9-LUJ, yellow with blue ink and lots of QCWA stuff all over it. Now when the members work the rare ones, we'll be able to properly QSL them.

Also, we tentatively decided to work our own Field Day this year for about six hours, the first three and the last three hours of the contest. Details are still being worked out.

The Chapter's Award Committee selected the first Olin Fox, K9AKG award recipient and would not share the name of the selectee with the rest of the members. They said if you want to know, come to the Ham banquet on the 2nd of March, and you'll see the plaque presented first hand. I personally think this was just a ploy to drum up business for the Ham Banquet Dinner. And since I chair both events, there may be some truth in that last statement!

The March meeting is scheduled for Monday, the 18th beginning at 7:30 p.m. at the South Port Restaurant in Kenosha. We should have a lively topic or two to bat around and a wee bit to eat. One thing I've noticed, that at all of Chapter 162's get together, they are never very far from food and drink. Come and join us if you can; if we don't have enough business to

discuss, I'll make up several lies and throw them on the table for debate.

Steve (K9ZL) and Joyce Bellgraph are at this writing in the warm Florida sunshine enjoying a three-week hiatus from old man winter.

Art (W9VSO) and Terry (Squeeks, N9VKF) Vahovius have, or are about to finalize the closing on their new home in Gulf Shores, Alabama. Art and Squeeks will be back in the North Country at the end of the month to dispose of their Lake Beulah property. I understand they are giving the land and home free of charge to the person who will buy the tower and antennas.

Bob (W0WLN) and Gladys Jensen (also at this writing) are on a week long bus trip to North Carolina.

Our Chapter has been selected as tellers for this year's world wide election of QCWA directors. The election, if it runs as it did in 1992 when we counted the ballots, will take place during the months of May, June and July. We will receive the mail ballots at a rented postal box, log the votes onto a computer program, and at the conclusion of the election period, send the results to QCWA headquarters for notification and publication.

It is with deep regret I tell you, that on the 24th of January 1996, Travis Baird, W9VQD became a Silent Key. He will be sorely missed by his family and the world Ham community.

73, Larry McCalvy, WA9JMO

Foundation For Amateur Radio Offers Scholarships to Hams

**Two Wisconsin Clubs' Awards Included;
Wisconsin Applicants May Qualify for Others**

The non-profit Foundation for Amateur Radio, Inc. - an ARRL-affiliated federation of radio clubs in the Washington, DC area - plans to administer 57 scholarships for the 1996-97 academic year to help licensed radio amateurs with their post-secondary education. Eight of the scholarships are fully funded with income from grants and the foundation's annual hamfest in Gaithersburg, Maryland.



Licensed hams are eligible if they plan to pursue a full-time course of study beyond high school and are enrolled or have been accepted at an accredited university, college, or technical school. Awards range from \$500 to \$2000, with preference given in some cases to those pursuing certain courses of study or to residents of specific geographical areas (Delaware, Florida, Maine, Maryland, New Jersey, Ohio, Pennsylvania, Virginia, and Wisconsin).

Application forms and information are available by letter or QSL postmarked prior to April 30, 1996, from FAR Scholarships, 6903 Rhode Island Avenue, College Park, Maryland 20740. Contributions to FAR are tax-

exempt.

Wisconsin clubs awarding scholarships are:

South Milwaukee Amateur Radio Club

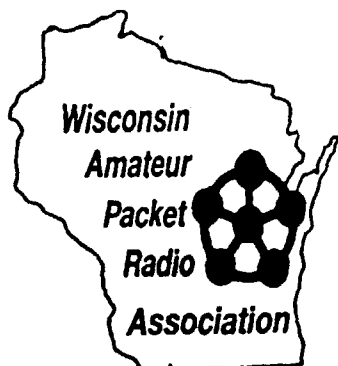
Four awards of \$500 each. Applicants must hold an Amateur Radio license and intend to seek an Associate or baccalaureate degree in Electrical Engineering or technology from a college or university in the U.S. They may reside in Wisconsin, Illinois, or Indiana, with preference given to Wisconsin residents.

WARAC Memorial Scholarships, West Allis Radio Amateur Club

Three awards of \$1000 each. Applicants must hold an Amateur license, be residents of the state of Wisconsin, and plan to attend a school in Wisconsin, pursuing at least an Associate degree. Those seeking graduate degrees are also eligible.

Wisconsin applicants are eligible for some of the other awards as well, and are encouraged to apply.

- The ARRL Letter, 1/12/96
and FAR news release



THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)

Bob Gedemer, KA9JAC

609 Wilson Street, Neenah, WI 54956

Andy Nemec, KB9ALN, Editor, 720 N. Broadway (Upper West), Green Bay, WI 54303

WAPR News for March 1996

It's coming! Yes, after a long cold winter, we may see spring yet! Seems like this winter may have all but erased the season from our thoughts. Hang in there, though. It will arrive. I guarantee it (for what that's worth!).

Now that spring is approaching, it's a good time to think about doing a "Spring Tune-Up" on your packet station. You not only will be doing yourself a favor, but the other folks you share your LAN with. While we customarily look over our antennas each spring to see what Old Man Winter has done to them, we often take the packet station for granted. Some of us may not have a real good idea of how well it works (or doesn't) unless we pay very close attention. As I point out in "Using the Wisconsin Network", your packet station's poor performance can not only mean bad things for you, it will also mean bad things for your fellow packeteers. The past two editions have been devoted to how packet radio works, and how to make it work better.

On to another subject. Once again, the subject of BBS's came up on the Internet Wisconsin packet mailing list. While the author of the note, WB9QZB expressed satisfaction with the WAPR position regarding censorship of packet bulletins, he also thought there was an issue WAPR needs to address.

He feels that WAPR needs to construct a "BBS Sysop Code of Ethics". Well, in the same bulletin that WAPR Chairman Kent, W9LZQ addressed the censorship issue, he addressed the proposal of a "Code of Ethics". The position stated at that time was that WAPR does not, and probably will not, mandate any "Ethical Standards". The position is that a BBS sysop has bought and paid for the equipment comprising a BBS, and that his license is the one put "on the line" when a BBS is in operation. The furthest that WAPR would like to go is to recommend and encourage the free-flow of bulletin traffic. It may be a different matter if WAPR owned the BBS's in question, but that is not the case. However, packet operators are encouraged to bring any matter that concerns them to any such WAPR meeting for a thorough discussion.

Which brings me to a related topic, which is part opinion on my part, and also part news. As far as the opinion part goes, I can't honestly say that I speak for any other BBS operators, the suspicion is that some may be in general agreement with what is said. The discussion centers around some issues that your local BBS Sysop may have to deal with in the future, thus, you may have to deal with them.

I am the sysop of our local BBS, a cooperative effort between other folks and myself. My call-sign is on the BBS, and I do considerable part of the Sysop work that is done on it. Which means that I have my nose in it quite often. I will tell you that there is no shortage, silly or otherwise, of flood-route "bulletins". Our BBS has regularly gone belly-up from basic overload. And the load on our LAN has been excessive at peak times. Mostly because people list all, or nearly all, of the messages on the BBS (whether they are interested in them or not, I might add). In spite of my best efforts to attempt to show folks an easier way, there is not enough of me to go around and teach everybody.

What we are currently investigating is the possibility of only accepting bulletins that our users are interested in. We will not deprive anybody of any special interest group, we just want to trim the waste. We are currently trying to work with our forwarding partners to make sure that none is short-changed on this.

Now some may call this censorship, but that is really not the goal here. There are a lot of messages that have come from Europe lately, and while some are of interest, a lot of them have been readdressed to World-Wide from Europe only, and not of interest to us here in the U.S. Not only that, but CB packet radio in

the Netherlands has been leaking into the system, and not all of what they say is legal. In the past month, no less than 6 messages made their way through the U.S. to our BBS's here in Wisconsin, and they definitely were obscene by anyone's standards. Yes, the dreaded word beginning with the 6th letter of the alphabet was used.

I emphasize that our goal is not to shortchange our BBS users, or our forwarding partners. It is just an attempt to give people what they want without the waste. I will let you know how this experiment works out, if at all in coming issues.

Perhaps this is the time to think about changing our BBS system. It is a tad archaic when we think about how the Internet mail system operates. Although we are not the Internet, we certainly can stand a little updating. Perhaps Wisconsin can be the home of innovation in the way that BBS's handle mail and bulletins? Something to think about!

And the last subject, the spring WAPR meeting. As of press time, no meeting date and place had been available. Watch your local BBS and the Wisconsin Packet mailing list for an announcement and agenda.

That's all for this month, folks. 73 from Andy.

Using the Wisconsin Network - Part 13 by Andy Nemec, KB9ALN

In the last edition of "Using the Wisconsin Network", we started looking at the network from it's beginnings, your station. We discussed, in basic terms, just how these pieces work together. In this installment, we will continue this discussion and look at setting up your radio and TNC so that your station becomes more "friendly" toward the network, and to other stations operating on your LAN frequency.

And we will start in that order, with the radio. Many people forget that packet radio is radio. The computer and associated boxes you have may all be working just fine, but useless if your radio is not properly set up. Remember that your data ultimately gets transmitted and received as audio tones, so the first place you have to look at packet performance is at your radio.

Look at transmitting, for starters. Your transmitter has to be on frequency, have the proper amount of deviation, and has to have clean audio. No Buzzes, no P.L. tones, and no RF getting into the microphone audio circuitry.

Frequency error is often overlooked when people are trying to diagnose a bad packet connection. If you have any doubt, try checking it with a frequency counter. You will need absolutely NO audio into the transmitter when you do this, and don't forget to turn off your P.L.

Assuming that you find your radio on frequency, you can go on to the next step, checking out your transmitter deviation. Your audio level from your TNC directly affects this, so you will need to hook your TNC back up and send some packets. To accurately measure deviation, you need to look at the signal on a Service Monitor. This handy test gear is out of the range of most Amateurs, but occasionally you will find someone who has one. If you have access to one of these, your peak deviation should be approximately +/- 4 KHz. If you are like most of us and don't have access to one, you can come close with an oscilloscope and another radio to listen on. If you don't have a scope, then your ears will have to do.

The trick to these two methods is to have a reliable reference to compare your signal to. This would probably be the local node for most people. You adjust your transmit audio level (On the TNC) so that it matches the volume level of the station you are using for a reference. That is why you will need to listen on another radio. It is easier and more accurate if you use an oscilloscope hooked to the

speaker terminals of the other radio. Of course, your reference should have the proper amount of deviation.

Once you have your transmit audio level set, you may wish to look at the cabling to the TNC. Use high quality shielded cable for your connections to the microphone circuit (or Data connector, if your radio has one).

There is also one final part of the transmit system you should pay attention to. That is what kind of antenna you are using, and where you have placed it in relation to your computer and TNC. First, using a rubber-duck antenna is not a preferred setup for packet. Not only does it not work very well when receiving or transmitting, but it also hears stuff you don't want it to hear. Keeping a rubber duck in close proximity to the computer and the TNC will insure the reception of computer hash from both of them. It also has the nasty property of radiating signal into your electronics, which can distort your transmit audio and possibly cause damage to your system. Best to have an antenna on the roof, or at least a good distance away from the rest of the equipment.

Now on to the receiver. There are 2 simple adjustments here. You don't need too much volume to get the TNC to decode properly, so setting the volume at 10 to 11 O'Clock is generally quite enough. More is not better here!

The squelch may require a bit of tinkering with. Generally speaking, the squelch should be set about 1/8th turn past the threshold of quiet. Sometimes lower noise levels will open up your squelch. This is not good, because in most cases this will cause the DCD light on your TNC to come on, and will prevent your station from transmitting (it thinks someone else is transmitting). Don't overlook this if your station does not want to transmit!

Now that we have looked at the radio end of your station, we will move on to the TNC. As was said earlier, this is important as it affects the way that your station interacts with others using the network and the LAN.

The North East Digital Association (NEDA) has set up guidelines for the real world of packet radio that make sense in today's packet radio world. Because their guidelines make so much sense, we will use them as a basis for setting up our TNC's. Below is a list of the more important parameters, what they do, and a realistic setting for them. Remember, most factory defaults were set in a day when packet radio was not as well populated as today, so it makes sense to change them to match today's packet radio environment.

BEACON = 0 Turn off your beacon. There is no need to have a beacon unless you have important information to disseminate. Your idea of a good job of a clever saying is not a good reason. If people need to know that you are out there, they can look at the "Heard" list. "Mail For" and ID broadcasts are legitimate beacons. Every Amateur radio publication relating to Packet Radio tells us that Beacons are a waste of spectrum. Let's end this practice!

DIGIPEAT = OFF Turn off your digipeat feature unless you have no node in the area, or it is absolutely necessary for some reason. Nodes do a much better job of repeating your packets, and keeping the Digi on will often override other features of your TNC that govern timing.

FRACK = 6 to 12 (seconds). This is the "FRACKnowledgement" timer. It governs how long your TNC waits for an acknowledgement from the other station you are connected to. In crowded areas like Milwaukee, for instance, you may want to use 10 to 12 seconds.

MAXFRAME = 1. This governs how many Data frames are sent with each transmission. Too many frames will keep your transmitter up too long, and not allow others to share the channel. Also note that the more frames sent, the longer the packet. The longer the packet, the more chance of errors, and this means po

throughput of data.

PERSIST = ON. This allows the TNC to wait a random amount of time before transmitting. You MUST have the Digipeater turned off for this to function. This gives other stations a chance to transmit, too.

PERSIST = 64. This generates a random number to be used in conjunction with SLOTTIME to calculate the time it waits before transmitting. The lower the PERSIST, the longer it waits. Though 64 is suggested, you may use 128 if yours is not a busy packet LAN frequency.

SLOTTIME = 20 (in ms). This is used with the PERSIST setting and again, governs the time the TNC delays before transmitting a data packet to the receiving station. Note: MFJ calls this "deadtime".

RESPTIME = 10 to 15. This is a timing parameter that controls how long the TNC waits to acknowledge a received packet. This differs from the above PERSIST in that PERSIST is involved in sending a data packet. RESPTIME is only effective in the acknowledgement of a received packet.

RETRY = 10. This is the maximum number of retries allowed before a station sends a disconnect. You may also consider setting this to 6 or so. If you can't get to somebody in 6 tries, you, or the other station, has a problem!

Note that some TNC manufacturers may use slightly different command names than we have used here (especially Multi-Mode controllers). Take a good look at the TNC manual and see if any of the commands have a similar description.

While this all may seem to be more trouble than it is worth, it will make a pronounced difference in throughput if you take the time to change a few settings. And anytime you can improve efficiency and channel usage, it is certainly worth the time. And if everyone on a LAN can cooperate and use the same settings, life will be easier for everyone.

And if life is easier on the LAN, then it will be easier on the network. And that will help you use the network more effectively.

'Till next time, 73 from Andy, KB9ALN.

South Central Wisconsin

SKYWARN Net

Prepares for 1996 Severe Weather Season

By Tom Weeden, WJ9H
SKYWARN Net Manager
6802 Putnam Road
Madison, WI 53711

Another year of changes is about to unfold as the South-Central Wisconsin SKYWARN Net readies for the next severe weather season. This is the year that the Madison National Weather Service Office ceases operations and the new LaCrosse doppler radar site goes online. The SKYWARN Net operates on the Baraboo 146.28/.88 repeater which offers wide-area coverage due to its position on the Baraboo Bluffs. Tower space for this repeater is provided to the Central Wisconsin Repeater Association at no charge by WOLX radio because of the public service the net offers. The repeater is carrier-access, but several remote receive sites have been set up around southern Wisconsin that can be accessed by encoding a PL tone of 123.0 Hz. This is advantageous to those reporting in on handi-talkies or stations using low-elevation "storm" antennas. If the 146.88 repeater goes down, operations will transfer to the MARA 147.75/.15 repeater in Madison.

All hams, especially those who have attended tornado spotter training classes offered in their areas by the National Weather Service, are invited to monitor the net and report severe weather to the Net Control Station (NCS). Reportable weather includes: tornadoes, funnel clouds, rotating wall clouds, hail of 1/4 inch diameter or greater, flash flooding, heavy rainfall amounts, wind speeds in excess of 50 miles per hour, and damage reports. Reports must be BRIEF to maintain net efficiency. When reporting severe weather, stations should initially identify themselves with their callsign and a one-word description of their traffic, such as "KA9XYZ, hail." The NCS will acknowledge the station, and the traffic can be passed. NWS requests that reports include a time of observation and your location relative to well-known highways.

Effective April 1, 1996, the three south-central Wisconsin counties which had been served by the Madison NWS Office will now be warned of severe weather by NWS/LaCrosse. Those counties are Adams,

The February 14, 1996 meeting of the Yellow Thunder Amateur Radio Club, Inc., was called to order at 7:43 p.m. by club president, Steve Schulze, N9UDO.

The minutes of the last meeting, as published in the BSSS, were accepted. Jim Decker, WB9UQT gave his usual and customary financial report.

OLD BUSINESS: Steve Schulze, N9UDO announced a change in the skywarn training. It will now be held at the Dept. of Emergency Government on March 16th at noon. Jim Paul, N9UQT gave an update on youth opportunity days. Circus Heritage days would be held May 17-19. Field day June 22 and 23. Ken Ebner, K9EN received the renewal license for the club call sign WB9FDZ. Plans were finalized for the open house to be held next Wednesday, February 21 at the Baraboo Civic Center.

NEW BUSINESS: Ken Ebner announced that Jim Romelfanger, K9ZZ was taking pictures of club members this evening and will be taking pictures at the open house and next club meeting to submit to Buckmaster Publishing. For every ten members pictures, the club will receive one CD ROM. Steve Schulze announced the Wisconsin QSO party to be held March 10. A letter was received by K9KR regarding the QSO party. Steve also passed around information regarding PRB1. Jim Decker read a note from Beverly Grant who was not renewing her club membership.

Juneau, and Richland. The remaining counties in our coverage area, Marquette, Green Lake, Sauk, Columbia, Iowa, Dane, Lafayette, Green and Rock, are the

responsibility of NWS/Sullivan. It is important to note that spotters in the northern counties should check in to the LaCrosse net on the 145.39 repeater in Tomah. The Madison-area net will take reports from the northern counties and attempt to pass the traffic to LaCrosse if necessary, but the extra relay will slow down the information flow. Since the Madison NWS office is closing, the SKYWARN liaison operator will be stationed at the Wisconsin Division of Emergency Government hamshack, and a second liaison (if available) will go to the Dane County Emergency Operations Center hamshack. The net control may operate from either location if necessary. Traffic on 146.88 will be monitored by the Sullivan liaison operator and passed to the meteorologists there. But all traffic must pass through the Net Control Station (NCS).

Some things to remember when you participate in a SKYWARN Net:

- * Don't overestimate wind speeds! In the exhilaration of the moment, a 35 MPH wind moving trees can seem like 60. Branches begin breaking off trees at about 58 MPH, and that is considered severe.
- * The SKYWARN Net will not accept "hearsay" traffic from stations monitoring law enforcement frequencies. These agencies have their own communications channels to the National Weather Service and are able to deliver their own observations. The Net DOES encourage relays of amateur traffic originating from stations who cannot access the repeater.
- * When the net is busy, don't slow things down by passing non-severe traffic. "The sky is dark here" is not helpful. "I see a funnel cloud" is definitely appropriate.
- * Remember that the operators and meteorologists monitoring at Sullivan may not be familiar with local landmarks. An observation of a funnel "near East Towne Mall" may not mean much to Sullivan, but "4 miles west of Sun Prairie" is more descriptive.
- * NWS is interested in damage reports and heavy rainfall totals from those with rain gauges. The Doppler radar at Sullivan can estimate rainfalls, but actual rainfall readings can help correlate their estimates. Even if your report is not current, offer it to the net when there is a gap in traffic.
- * Finally, the SKYWARN Net is monitored by law enforcement, emergency government agencies, news media, and others. Maintain a professional attitude when checking in. "Amateur" should describe the name of our radio service, not our

Yellow Thunder Amateur Radio Club



WB9FDZ (Original Club Call)
K9ODK (Robert L. Prine Memorial Call)

Raymond J. Matlosz, N9MLZ, Secretary
450 West 2nd Street • Reedsburg, WI 53959



Buck night winner was the club secretary, who left the money with the treasurer as a donation towards the clubs field day food fund.

Meeting adjourned at 8:36 p.m.

The next meeting will be held Thursday March 14, 1996 at 7:30 p.m. in room 14 at the Baraboo Civic Center.

Sincerely,

Raymond J. Matlosz, N9MLZ, Secretary

The following members and guests were present:

Steve Schulze	N9UDO	Baraboo
Jim Romelfanger	K9ZZ	Baraboo
Jim Paul	N9LKY	Merrimac
Art Kleefisch	W9WSS	Baraboo
Jim Decker	WB9UQT	Baraboo
Bill Klinkner	N9KXX	Sauk City
Anne Klinkner	N9PQL	Sauk City
Raymond Matlosz	N9MLZ	Reedsburg
George Gabay	N9QQR	New Lisbon
Domenic Bianco	KA9QFK	Reedsburg
David Spearking	KB9CSW	Portage
Jim Romelfanger	K9ZZ	Baraboo
Karen Schulze		Baraboo
Ken Ebner	K9EN	Portage

performance.

When necessary, SKYWARN-related announcements will be made to the ham community on three regular nets. They are the CWRA Swap Net (Sundays at 10 AM on the 146.88 repeater), the Dane County ARES Net (Wednesdays at 8:00 PM on the 146.76 repeater in Madison), and the MARA Net (Wednesdays at 9:00 PM on the 147.15 repeater in Madison).

The National Weather Service has made it known that amateurs' severe weather observations on the SKYWARN Net assist them in making timely warnings to the public.

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Kettle Moraine Radio Amateurs

SWAPFEST

Sunday, October 13, 1996

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Info: KMRA Swapfest P. O. Box 411
Waukesha, WI 53187-0411

Red Cedar Repeater Association, Inc.

AUCTION

February 25, 1997 • 7:00 p.m.

American Legion Post 53 • 634 Water Street
Eau Claire, WI

CONTACT:

Steve Hart, KA9OMC
E616 810th Ave.

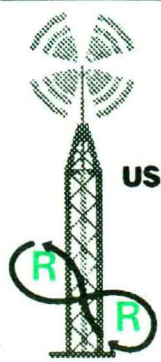
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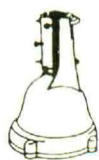
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